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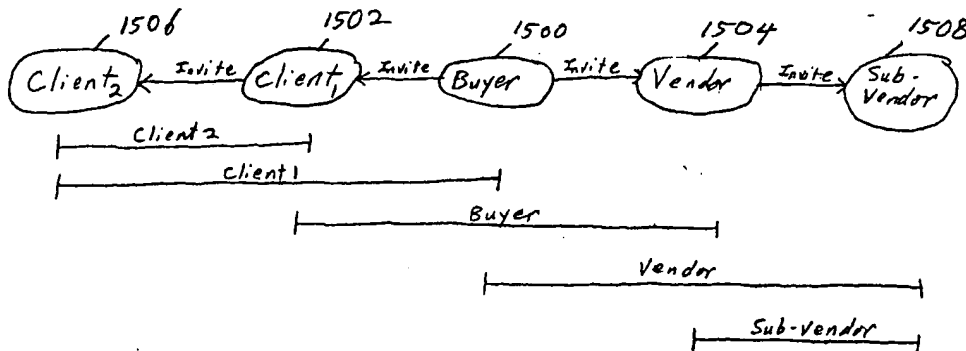
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(54) Title: SYSTEM AND METHOD FOR MANAGING PROJECTS USING ACCESS RIGHTS



(57) Abstract: According to an embodiment of the present invention, projects involving multiple parties are collaborated through a service accessed via a network such as the Internet. For example, a print job can be coordinated by having a buyer (1500), a vendor (1504), subvendors (1508), and clients of the buyer access a server through the Internet wherein all individuals involved with the print job works with a single updated specification that is uniform for all individuals involved. Additionally, according to an embodiment of the present invention, the coordination of the project includes managing communications involved with the project.

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SYSTEM AND METHOD FOR MANAGING PROJECTS USING ACCESS RIGHTS

FIELD OF THE INVENTION

The present invention relates to providing a service over a network. In
5 particular, the present invention relates to a collaboration service for projects.

BACKGROUND OF THE INVENTION

Many projects require the collaboration of multiple parties. One example can
be seen in the printing industry. For example if a company wishes to market a fall
10 promotion, it is likely that multiple people will be involved in creating the fall
promotion, and once the promotion concept is created, an outside company, such as a
printing company, is often hired to produce advertisements, catalogs, and other
various deliverables. In many cases, the company might hire a creative agency to
manage the creation of the promotion. The creative agency in turn typically hires a
15 prepress agency or a printer to assist in the project. The prepress agency and the
printer may each hire additional vendors to provide them with materials or a small
portion of their job.

In another example, a financial institution may generate an internal document
defining a new product. This internal document may include information such as the
20 size, image, text, and how the resultant document should be folded. This information
can be included in a print job specification and communicated, via fax, courier, or
mail for example, to various printing companies to invite the printing companies to

bid for a particular job. The printing companies may then review the job specification and might reenter the specification in a different format on an internal document to estimate the cost of the requested job. The printing company may reenter the information due to differences in the buyer's system used to generate the original specification and the printer's system. For example, the buyer may request a particular typeface which might only apply to the buyer's computer system. One of the printers receiving the specification may need to convert the name of the typeface into an equivalent font used in his computer system. The printer may also need to reenter the specification to enter specific information required to generate an estimate that the buyer may have neglected to specify, such as a type of paper. Once each printer has determined an estimate, the estimate is sent back to the buyer. This estimate is commonly presented in an estimating document, the format of which is typically different for each printer. Likewise, the printer's format is typically different from the format of the original specification provided by the buyer. For example, the information, format, and terminology may be different from the original specification as well as from other estimates. It can be very difficult for the buyer to compare the various estimates. The buyer eventually picks a printer and often only contacts the selected printer while neglecting to contact the other printers who provided estimates. Once the printer begins work on the print job, there are typically numerous communications to ensure that files, specification, and all other materials such as art work and transparencies are received and updated to incorporate any changes. The printer will then typically produce a proof for the buyer and the buyer may have some changes which the printer will need to incorporate, typically in an iterative communication process.

There is typically a large amount of communication that is required between the buyer and the printer, particularly since it is often the case that the buyer has multiple people providing inputs and changes to the job specification during the print job, all of which needs to be coordinated and communicated to the printer. Likewise, 5 any issues on the printer's side need to be coordinated at the printing company and communicated to at least one person, if not multiple people, at the buyer's side. Each new version or change can generate multiple communications that are required for approval and execution.

If a third agency is involved, such as a creative agency, then these multiple 10 communications need to be coordinated between three parties. Likewise, each party, the buyer, the creative agency, and the printer, will typically have their own version of the print job. Each party must be careful to ensure that their version is the latest version and that version has been communicated to all the other parties involved to ensure consistency of versions. Examples of changes to the job specification include 15 moving an image, changing the fold of the paper, changing font sizes, and changing the schedule for delivery of the finished product.

In all this confusion, it is typically very difficult for the buyer to maintain company records of projects and costs and time projections. These projects can also be a very people intensive process since each member of the team needs to be reached 20 when a telephone call comes in with regard to approval for changes to the job specification. It can also be difficult for one team member to determine if every individual involved in the print job has agreed to or approved a particular change.

What is needed is a system and method for coordinating and managing such a project. The present invention addresses such a need.

SUMMARY OF THE INVENTION

According to an embodiment of the present invention, projects involving
5 multiple parties are collaborated through a service accessed via a network such as the Internet. For example, a print job can be coordinated by having a buyer, a vendor, sub vendors, and clients of the buyer access a server through the Internet wherein all individuals involved with the print job works with a single updated specification that is uniform for all individuals involved. Additionally, according to an embodiment of
10 the present invention, the coordination of the project includes managing communications involved with the project.

A method according to an embodiment of the present invention for managing a print project is presented. The method comprises storing a print specification, wherein the specification is associated with a URL on the Internet. The method also
15 includes coordinating communications between a buyer and a printer regarding the print project, wherein the buyer and the printer both view the print specification through the URL on the Internet. A party is invited to join the print project; and a role is associated with the party, wherein the role is associated with an access right to information.

20 Another method for managing a print project according to an embodiment of the present invention is presented. The method comprises storing a print specification, wherein the specification is associated with a URL on the Internet;

inviting a party to join the print project; and associating a role with the party, wherein the role is associated with an access right to information.

A system according to an embodiment of the present invention for managing a print project is also presented. The system comprises a processor configured to store
5 a print specification, wherein the specification is associated with a URL on the Internet. The processor is also configured to coordinate communications between a buyer and a printer regarding the print project, wherein the buyer and the printer both view the print specification through the URL on the Internet. A party is invited to join the print project; and a role is associated with the party, wherein the role is
10 associated with an access right to information. A memory coupled with the processor is also included. The memory is configured to provide the processor with instructions.

A method for managing a project according to an embodiment of the present invention is also presented. The method comprises storing a project description,
15 wherein the description is associated with a URL on the Internet; inviting a party to join the project; and associating a role with the party, wherein the role is associated with an access right to information.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will be readily understood by the following detailed
20 description in conjunction with the accompanying drawings, wherein like reference numerals designate like structural elements, and in which:

FIG. 1 is block diagram of a computer system suitable for use with an embodiment of the present invention.

FIG. 2 is a block diagram of an embodiment of the present invention for managing a project.

5 FIG. 3 is another block diagram illustrating an aspect of a method according to an embodiment of the present invention for managing a project.

FIG. 4 is a flow diagram of a method according to an embodiment of the present invention for managing a project, such as a print project.

10 FIG. 5 is an example of a graphical user interface of a method according to an embodiment of the present invention for managing a project.

FIG. 6 is another example of a graphical user interface according to an embodiment of the present invention for managing a plurality of projects.

FIG. 7 is an example of a graphical user interface according to an embodiment of the present invention for tracking events associated with a project.

15 FIGs. 8A – 8B are flow diagrams of a method according to an embodiment of the present invention for selecting a vendor for a project.

FIGs. 9A – 9B show an example of a graphical user interface according to an embodiment of the present invention for a specification form that can be used by a buyer to describe the project.

FIG. 10 is an example of a graphical user interface according to an embodiment of the present invention for viewing vendor estimates submitted for a project.

FIG. 11 is a flow diagram of a method according to an embodiment of the present invention for managing a project and providing various access rights to
5 selected individuals.

FIG. 12 is a flow diagram of a method according to an embodiment of the present invention for inviting potential members of a team associated with a particular project.

10 FIG. 13 is an example of a graphical user interface according to an embodiment of the present invention that can be used to select team members for invitation onto the team.

FIG. 14 is an example of a graphical user interface according to an embodiment of the present invention for viewing team members associated with a
15 project.

FIG. 15 is an example of team member roles and rules associated with those roles according to an embodiment of the present invention.

FIG. 16 is a flow diagram of a method according to an embodiment of the present invention for notifying a team member about an event.

20 FIG. 17 is a flow diagram of a method according to an embodiment of the present invention for managing a project using publishing restrictions.

FIG. 18 is an example of a graphical user interface according to an embodiment of the present invention for use in providing a publishing restriction.

FIGs. 19A-19B is a flow diagram of a method according to an embodiment of the present invention for providing a publishing restriction.

5 FIG. 20 is a flow diagram of a method according to an embodiment of the present invention for managing a project using company hiding.

FIG. 21 shows an example of company hiding.

FIG. 22 is a flow diagram of a method of managing a project using company hiding according to a second embodiment of the present invention.

10 FIG. 23 is an illustration of a method according to an embodiment of the present invention for providing company hiding.

FIGs. 24A – 24C are block diagrams illustrating an example of company hiding.

DESCRIPTION OF SPECIFIC EMBODIMENTS

15 The following description is presented to enable one of ordinary skill in the art to make and to use the invention and is provided in the context of a patent application and its requirements. Various modifications to the preferred embodiments will be readily apparent to those skilled in the art and the generic principles herein may be
20 applied to other embodiments. Thus, the present invention is not intended to be

limited to the embodiment shown but is to be accorded the widest scope consistent with the principles and features described herein.

Although the following description uses the example of print projects to illustrate the invention, the present invention is not intended to be limited to print
5 projects. The present invention may be applied to any project that could benefit from management, such as the facilitation of negotiation, collaboration, and awarding of services. An example of such projects include media agency projects such as television advertisements, radio advertisements, the purchasing of radio air time, the purchasing of radio or television production time, purchasing related to website
10 production projects, purchasing related to interactive product projects, legal agreement projects, real estate collaboration projects, and construction projects.

FIG. 1 is a block diagram of a general purpose computer system 100 suitable for carrying out the processing in accordance with one embodiment of the present invention. FIG. 1 illustrates one embodiment of a general purpose computer system.
15 Other computer system architectures and configurations can be used for carrying out the processing of the present invention. Computer system 100, made up of various subsystems described below, includes at least one microprocessor subsystem (also referred to as a central processing unit, or CPU) 102. That is, CPU 102 can be implemented by a single-chip processor or by multiple processors. CPU 102 is a
20 general purpose digital processor which controls the operation of the computer system 100. Using instructions retrieved from memory 110, the CPU 102 controls the reception and manipulation of input data, and the output and display of data on output devices.

CPU 102 is coupled bi-directionally with memory 110 which can include a first primary storage, typically a random access memory (RAM), and a second primary storage area, typically a read-only memory (ROM). As is well known in the art, primary storage can be used as a general storage area and as scratch-pad memory, and can also be used to store input data and processed data. It can also store programming instructions and data, in the form of data objects and text objects, in addition to other data and instructions for processes operating on CPU 102. Also as well known in the art, primary storage typically includes basic operating instructions, program code, data and objects used by the CPU 102 to perform its functions.

Primary storage devices 110 may include any suitable computer-readable storage media, described below, depending on whether, for example, data access needs to be bi-directional or uni-directional. CPU 102 can also directly and very rapidly retrieve and store frequently needed data in a cache memory (not shown).

A removable mass storage device 112 provides additional data storage capacity for the computer system 100, and is coupled either bi-directionally or uni-directionally to CPU 102. For example, a specific removable mass storage device commonly known as a CD-ROM typically passes data uni-directionally to the CPU 102, whereas a floppy disk can pass data bi-directionally to the CPU 102. Storage 112 may also include computer-readable media such as magnetic tape, flash memory, signals embodied on a carrier wave, PC-CARDS, portable mass storage devices, holographic storage devices, and other storage devices. A fixed mass storage 120 can also provide additional data storage capacity. The most common example of mass storage 120 is a hard disk drive. Mass storage 112, 120 generally store additional programming instructions, data, and the like that typically are not in active use by the

CPU 102. It will be appreciated that the information retained within mass storage 112, 120 may be incorporated, if needed, in standard fashion as part of primary storage 110 (e.g. RAM) as virtual memory.

In addition to providing CPU 102 access to storage subsystems, bus 114 can
5 be used to provide access other subsystems and devices as well. In the described embodiment, these can include a display monitor 118, a network interface 116, a keyboard 104, and a pointing device 106, as well as an auxiliary input/output device interface, a sound card, speakers, and other subsystems as needed. The pointing device 106 may be a mouse, stylus, track ball, or tablet, and is useful for interacting
10 with a graphical user interface.

The network interface 116 allows CPU 102 to be coupled to another computer, computer network, or telecommunications network using a network connection as shown. Through the network interface 116, it is contemplated that the CPU 102 might receive information, *e.g.*, data objects or program instructions, from another
15 network, or might output information to another network in the course of performing the above-described method steps. Information, often represented as a sequence of instructions to be executed on a CPU, may be received from and outputted to another network, for example, in the form of a computer data signal embodied in a carrier wave. An interface card or similar device and appropriate software implemented by
20 CPU 102 can be used to connect the computer system 100 to an external network and transfer data according to standard protocols. That is, method embodiments of the present invention may execute solely upon CPU 102, or may be performed across a network such as the Internet, intranet networks, or local area networks, in conjunction with a remote CPU that shares a portion of the processing. Additional mass storage

devices (not shown) may also be connected to CPU 102 through network interface 116.

An auxiliary I/O device interface (not shown) can be used in conjunction with computer system 100. The auxiliary I/O device interface can include general and customized interfaces that allow the CPU 102 to send and, more typically, receive data from other devices such as microphones, touch-sensitive displays, transducer card readers, tape readers, voice or handwriting recognizers, biometrics readers, cameras, portable mass storage devices, and other computers.

In addition, embodiments of the present invention further relate to computer storage products with a computer readable medium that contain program code for performing various computer-implemented operations. The computer-readable medium is any data storage device that can store data which can thereafter be read by a computer system. The media and program code may be those specially designed and constructed for the purposes of the present invention, or they may be of the kind well known to those of ordinary skill in the computer software arts. Examples of computer-readable media include, but are not limited to, all the media mentioned above: magnetic media such as hard disks, floppy disks, and magnetic tape; optical media such as CD-ROM disks; magneto-optical media such as floptical disks; and specially configured hardware devices such as application-specific integrated circuits (ASICs), programmable logic devices (PLDs), and ROM and RAM devices. The computer-readable medium can also be distributed as a data signal embodied in a carrier wave over a network of coupled computer systems so that the computer-readable code is stored and executed in a distributed fashion. Examples of program

code include both machine code, as produced, for example, by a compiler, or files containing higher level code that may be executed using an interpreter.

The computer system shown in FIG. 1 is but an example of a computer system suitable for use with the invention. Other computer systems suitable for use with the invention may include additional or fewer subsystems. In addition, bus 114 is illustrative of any interconnection scheme serving to link the subsystems. Other computer architectures having different configurations of subsystems may also be utilized.

FIG. 2 is a block diagram of a system according to an embodiment of the present invention for managing a project, such as a print project. In this example, information related to the project are stored and viewed on a server accessed via the Internet, such as through a uniform resource locator (URL). Information related to the project is herein referred to as the live job 200. The live job 200 can be accessed by parties invited to work on the project via a network such as the Internet. In the example of a print project, a printer 202, a buyer 204, a pre-press agency 206 and a mailing agency 208 can all access the information on the live job 200 and communicate with other parties on the job team via the live job 200.

The live job 200 can be stored on a database, such as a database produced by Oracle. Numerous live jobs 200, associated with numerous projects, can be stored on such a database on a server accessible via the Internet.

FIG. 3 is a block diagram showing examples of information that can be stored, viewed, and edited in the live job 200. Examples of such information include a specification describing the project, any files associated with the project, including

images and graphic files, messages, faxes, the project status, a project team setup, and estimates associated with the project.

FIG. 4 is a flow diagram of a method according to an embodiment of the present invention for managing a project, such as a print project. A buyer creates a description of at least a portion of the project (step 400). For example, the buyer creates a print specification for a print project. The specification is stored, wherein the specification is associated with a URL on the Internet (step 402).

Communications between parties related to the project, such as the buyer and a printer, regarding the project is coordinated through the live job 200 (shown in FIG.

3) (step 404). The specification is viewed through the URL on the Internet (step 406). The specification can also be changed, wherein the changed specification is accessed through the URL (step 408).

FIG. 5 is an example of a graphical user interface according to an embodiment of the present invention for managing a project. In this example, a qualified user, such as a buyer of a particular project, can view information regarding the project. In this example, this project is a brochure. The status of the project can be viewed. In this example, an order for the project has been accepted. Messages can also be viewed regarding the project. The user can also view most recent events as well as team member information related to this project.

FIG. 6 is an example of another graphical user interface according to an embodiment of the present invention for managing a project. In this example, a qualified user, such as a buyer, can view all projects associated with that buyer.

Examples of information which may be viewed include the job number, a job name, the user's role in the project, a status of the project, a client associated with the project, a due date of the project, and a sales representative. Selected information, such as the status of certain projects, may be changed by a user, depending on the
5 access privileges of the user. Further details of access rights related to a particular user is later discussed. For example, access privileges are discussed in conjunction with FIGs. 11-16.

FIG. 7 is an example of a graphical user interface for viewing tracking information according to an embodiment of the present invention. In this example, a
10 user with appropriate access rights may view the current status of the project. Examples of status information include new project, creation of an order, acceptance of an order, completion and shipment of a project, and delivery of a project.

The user may also view the project event tracking. Examples of information which can be viewed through the event tracking category include date, time, event,
15 person, and comments. Examples of events that may be tracked include acceptance of an order associated with the project, creation of an order, the submission of an estimate, and the requesting of an estimate. These events, such as the submitted estimates, may be stored for the buyer's records. Accordingly, the buyer may have a complete history of the project including the dates of events, costs and updated costs
20 associated with changes, and the various parties that were involved with the project.

FIGs. 8A-8B are flow diagrams of a method according to an embodiment of the present invention for obtaining an estimate for a project, such as a print project. A

user, such as a buyer, contacts a server via a network, such as the Internet (step 600).

The buyer is presented with a preformatted specification form (step 602). An example of the preformatted specification form is shown in FIGs. 9A-9B. The buyer creates a specification by filling out the specification form (step 604). The resulting

5 project specification is stored on the server, and can be accessed through a URL. The buyer is then presented with a list of vendors such as printers (step 606). The buyer may view further information regarding these vendors. The more detailed information may be stored in the same server or the buyer may be directed to a vendor website via a hyperlink, for example. The buyer selects printers from whom the buyer
10 is interested in obtaining estimates (step 608). The selected printers are notified, such as via email, and requested to contact the server under a specific URL to provide an estimate for the project specification associated with the URL (step 610). These estimates are received from the selected printers and stored on the server (step 612). The buyer is then presented with the estimates from the selected printers (step 614).
15 For example, the buyer may contact the server via the Internet and view the received estimates.

An estimate is then selected (step 616). The printers who submitted estimates but were not selected for the project are automatically notified, such as through email (step 618). The printer who submitted the selected estimate is also notified (step 620).

20 FIGs. 9A-9B show an example of a preformatted specification form that can be filled out by a user, such as the buyer of a print project. Examples of information that may be included in the specification, such as a print specification, includes category of the printed piece (such as a brochure), a job number, a job name, a job

description, a client company, a due date of the project, a reference identification, and various comments related to these issues. Size information of the print project may also be included, such as a flat size, a finish size, page count, cover style, and comments related to the size. Various quantities may be specified, and stocks and inks may also be specified. For example, the stock name may be identified, a type of stock, the finish, the weight, the coding, the color, and comments related to the stock. The inks may be specified by specifying various colors and processes, such as black, docutech, PMS colors, metallic ink, various coatings, wax-free inks, a double hit, ink coverage, bleeds, and comments for the inks.

10 FIG. 10 is an example of another graphical user interface showing estimates according to an embodiment of the present invention. In this example, the current specification for the project may be viewed, as well as estimate information associated with that specification. Examples of information that can be included in a request for an estimate include the status of the estimating process, the date and time the bids are due, and the due date of the project. Additional details may include the identification of the vendors to whom the request for estimates were (or are to be) sent.

Information related to the actual estimates from the vendors may also be viewed. Examples of information related to the estimates include the estimate number, the name of the company providing the estimate, the author of the estimate, the date and time the estimate was submitted, the expiration date and time of the estimate, and various estimates for certain variables, such as estimates for different numbers of copies for a print project.

FIG. 11 is a flow diagram of a method according to an embodiment of the present invention for managing a project and providing various access rights to selected individuals. A specification is stored, wherein the specification is associated with a URL on the Internet (step 800). The specification is viewed through the URL on the Internet (step 802). Communications between the buyer and the printer regarding the print project are coordinated (step 804). A party is invited to join the print project (step 806). A role is associated with the invited party, wherein the role is associated with an access right to information (step 808).

FIG. 12 is a flow diagram of an example for inviting a party to join a project, such as in step 806 of FIG. 11, according to an embodiment of the present invention. A creator of a job invites a potential member of the job team (step 900). It is then determined whether the invitee can invite others onto the job team (step 902). This determination is based on the selection of a role of the invitee (step 904). Each invitee is assigned a role associated with the particular project team. Each role has associated with it a set of rules applying to the assigned role. The rules associated with roles are later discussed with conjunction with FIG. 15. Communication, such as email, is automatically sent to the invitee notifying him of the invitation and contact information related to the project (step 906).

FIG. 13 is an example of a graphical user interface for choosing invitees by a user according to an embodiment of the present invention. In this example, the user, such as a buyer for a project, can select the people the user wishes to invite by selecting the invitees from an address book. Once the invitees are selected, the

invitations can automatically be prepared. This address book can be stored on the server associated with the project, and accessed via the Internet.

FIG. 14 is an example of a graphical user interface showing a user information related to team members associated with a particular project, such as a print project.

- 5 In this example, information related to the team members include name, role, email address, phone number, company, date invited onto the team, date joined.

FIG. 15 is an example of a set of roles and a set of rules associated with such roles for the example of a print project. These sets of rules may be used in conjunction with step 904 of FIG. 12. Examples of roles for a print project include

- 10 buyers, printers, designers, guests, clients, estimators, group members, and group managers. A buyer can be someone who wishes to obtain the services of a vendor. In this example, the printers are the vendors for the job. Designers, guests, and clients may also be asked to join a job team. The estimator role may be a temporary role used during the request and receipt of estimates until a vendor, such as a printer, is
- 15 selected. A group members may be regular users in a company account. Group managers may be company account administrators who can see all of the print jobs created by anyone in their company account (their group). A group manager may run reports across all of the jobs in their account, for example.

- Examples of actions that may be included among the privileges associated
- 20 with a particular role includes viewing the job description, inviting a person onto the job team, updating the job description, creating the project job, creating a request for estimate (RFE), viewing the request for estimate, creating an estimate, viewing the

estimate, creating an order, viewing an order, updating an order, accepting an order, accepting a pending order, inviting anybody onto the job team, inviting a printer onto the job team, inviting an estimator, creating a specification, updating a specification, deleting a specification, updating any specification, viewing any request for estimate, 5 viewing any estimate, viewing any order, submitting a change for an order, viewing a specification, and viewing any specification. Updating a job can include changing any information associated with the whole print job such as names, descriptions and comments. Updating an order can include changing information on an order such as the P.O. number associated with a payment. Updating a specification can include 10 changing the specification that describes the printing work that needs to be done such as changing a print job from two colors to four colors. Viewing a specification may be viewing the current specification, whereas viewing any specification may mean being able to view all versions of the specification.

An example of rules for buyers include the ability to perform all the actions 15 listed above except for accepting an order, inviting anybody, inviting a printer, and inviting an estimator. Estimators and printers are special roles that can be assigned by the system during the job's life cycle. For example, there is no need to invite someone as an "estimator" unless a request for estimates has been generated describing the job for which the estimate is requested. Therefore, estimators may be "invited" by 20 creating a request for estimate, which acts as a special kind of invitation. Likewise, a "printer" is job team member from a particular company account to whom the job has been awarded – i.e. to whom the order is sent. Printers may therefore be assigned automatically by the system when an order is created rather than being specifically

invited by the buyer. The buyer essentially "invites" a printer by selecting an estimate for a job.

Examples of rules for printers include being able to view a job, invite a person onto the job, create a job, view an order, update an order, accept an order, invite a
5 printer, and view the job specification. An example of rules for designers includes being able to view a job, create a job, view the specification of a job, and view any specification.

An example of rules for guests include viewing the job, creating a job, viewing a job specification, and viewing any specification. An example of rules for
10 clients include viewing a job, creating a job, viewing the job specification, and viewing any job specification. Examples of rules for clients include viewing the job, creating a job, viewing the job specification, and viewing any specification. Examples of rules for estimators include viewing a job, inviting a person on the job, creating a job, creating an estimate, creating a specification, updating a specification,
15 deleting a specification, and viewing a specification.

Examples of a rule for group members includes viewing a job. Examples of rules for group managers include viewing a job, inviting a person on to the job, creating a job, creating an order, and viewing a specification.

FIG. 16 is a flow diagram of a method for processing events for managing a
20 project according to an embodiment of the present invention. An event occurs (step 1000). For example, the event may be that the estimates for a print project have been

received. A job team member is then selected (step 1008). It is then determined whether the event is relevant for the selected team member's role (step 1010). For example, if the selected team member is the buyer, then the event of receiving the estimate would be relevant to him. However, if the selected team member is a guest, then the event of receiving an estimate would not be relevant since the guest does not have the privilege of viewing the estimates according to the example of FIG. 15.

If the event is not relevant for the selected team member's role, then the next team member is selected (step 1016), and it is determined whether this event is relevant for this newly selected member's role (step 1010). If the event is relevant for this member's role, then it is determined whether this team member wants notification of the event (step 1012). If the team member has indicated that he wants notification of events, then the notification is sent to the particular team member (step 1018).

It is then determined whether this team member is the last team member (step 1014). Additionally, if the team member does not want notification (step 1012), then it is also determined whether this team member is the last team member (step 1014). If this team member is the last team member, then the processing of the event ends. If, however, this team member is not the last team member, then the next team member is selected (step 1016) and the processing of the event continues as described above.

FIG. 17 is a flow diagram of a method according to an embodiment of the present invention for managing a project using publishing restrictions. A specification is stored, wherein the specification is associated with a URL on the

Internet (step 1100). A team associated with the print project is provided (step 1102). A message is posted, wherein the posted message includes a publishing restriction, wherein the publishing restriction limits the members of the team who may view this message (step 1104).

5 FIG. 18 is an example of a graphical user interface which allows publishing restrictions according to an embodiment of the present invention. In this example, the user may enter a message and indicate with whom the message should be shared. Examples of parties with whom the message can be shared include the entire job team, people from a specific company, people with a specific role, or a specific
10 individual. Additionally, the user can publish a message for his eyes only such that the message is not shared with anyone else other than the creator of the message.

 FIGs. 19A-19B are flow diagrams of a method according to an embodiment of the present invention for managing a project using a publishing restriction. A team member creates a message (step 1200). It is then determined whether the team
15 member is a project job creator (step 1202). If the team member is a job creator, then it is determined whether this message is for the entire job team (step 1204). If the message is for the entire job team, then the message is posted and accessible to all members of the team (step 1214). If, however, the message is not for the entire job team (step 1204), then it is determined whether the message is only for a specific
20 company (step 1206). Also, if the team member is not a project job creator (step 1202), then it is also determined whether the message is only for a specific company (step 1206). If the message is only for a specific company, then the company is

specified (step 1208), and the message is posted to team members of the specified company (step 1210).

If the message is not for a specific company (step 1206), then it is determined whether the message is meant only for a specific role (step 1212). If the message is only for a specific role, then the role is specified (step 1216), and the message is posted such that team members with the specified role may view the message (step 1218).

If, however, the message is not meant to be published only for a specific role (step 1212), then it is determined whether the message is only for a specific person (step 1300). If the message is meant only for a specific person, then the person on the job team is specified (step 1302), and the message is posted to the specified person (step 1304).

If the message is not for a specific person (step 1300), then it is determined whether the message is meant only for the creator of the message (step 1306). If the message is only meant for the creator of the message, then the message is limited to being viewed only by the creator of the message (step 1310). If, however, the message is not meant only for the creator of the message (step 1308), then the party to whom the message should be posted is identified (step 1306), such as a specific person on the team, a specific role on the team, a specific company associated with the team, or the entire team.

FIG. 20 is a flow diagram of a method according to an embodiment of the present invention for managing a project using company hiding. Company hiding, as used herein, includes a situation wherein a first party is unable to view or participate in the communications between a second party and a third party even when all of

5 these parties are associated with the same overall project.

A specification is stored, wherein the specification is associated with a URL on the Internet (step 1400). Communications between the buyer and the printer regarding the project are coordinated (step 1402). The specification is viewed through the URL on the Internet (step 1404). A message is posted by a second party

10 wherein a first party does not have access to the message if the first party was not directly involved with an invitation associated with this second party (step 1406).

FIG. 21 shows an example of company hiding. In this example, a buyer 1500 invites a first client 1502 as well as a vendor 1504 into a job team for a particular project. The first client 1502 then invites a second client 1506 into the job team. The

15 vendor 1504 invites a sub vendor 1508 into the job team.

The second client 1506 can view and participate in communications between himself and the first client 1502 since both parties were directly involved in the invitation of one of the parties. In this case, the first client 1502 invited the second client 1506.

20 The first client 1502 can view and participate in communications between himself and the second client 1506, as well as communications between himself and

the buyer 1500 since the first client 1502 was directly involved with an invitation onto the job team of one of the communicating parties. The first client 1502 was directly involved with an invitation that brought the second client 1506 into the job team, and the buyer 1500 invited the first client 1502 into the job team.

5 The buyer 1500 can view communications between himself and his invitees, the first client 1502 and vendor 1504. Likewise, vendor 1504 can view communications between himself and his invitees, the sub vendor 1508. The vendor 1504 can also see communications between himself and the party who invited him, the buyer 1500. The sub vendor 1508 can view communications between himself and
10 the party who invited him, the vendor 1504.

FIG. 22 is a flow diagram of a method of managing a project using company hiding according to a second embodiment of the present invention. In this example, the company hiding is shown as various layers of associated jobs with teams associated with these various jobs.

15 According to this embodiment, a specification for a first print project is stored, wherein the specification is associated with a URL on the Internet (step 1600). The specification is viewed through the URL on the Internet (step 1602). Communications between a buyer and a printer regarding the first project is coordinated (step 1604). A message is then posted, wherein a party associated with a
20 second print project does not have access to the message, and wherein the second print project is associated with the first print project (step 1606).

FIG. 23 shows an example of various related print jobs and their associated teams, such as that described in step 1606 of FIG. 22. In the example shown in FIG. 23, a first print job 1700A is shown to include three members on its job team: party A 1702, party Q 1704, and party B 1706.

5 A second job 1700B is associated with the first job 1700A. An example of how the second job 1700B is related to the first job 1700A is if a vendor of the first job has contracted a sub vendor to produce a portion of the project. The interactions between the vendor and the sub vendor are included in the second job 1700B in this example. The second job 1700B is shown to include three parties: party Q1704', party
10 B1706', and party C1708.

A third job 1700C is shown to be associated with the second job 1700B. For example, a member of the second job team may have hired another a company to provide services for a piece of their project. The interactions between the member of the second job team and the newly hired company are included in the third job 1700C
15 in this example. The third job 1700C is shown to include three parties: party B1706", party C1708', and part D17010.

For example, the first job 1700A may be a print project with party Q1704 as the buyer for the first job 1700A. In this example, party Q1704 invites parties A1702 and B1706. Assume that party B1706 is a printer and party A1702 is a client. For
20 example, the buyer 1704 of the first job 1700A may be a creative agency working with the client A1702.

Because the party Q1704 of the first job 1700A invited both parties A1702 and B1706, party Q1704 can participate in communications between himself and parties A1702 and B1706. Party A1702 can be involved with communications between himself and party Q1704 since both these parties were directly involved with the invitation of one of these parties (party A1702). However, party A1702 is not privy to viewing or being involved with communications between parties Q1704 and B1706 since party A1702 was not directly involved in the invitation of one of those two parties (Q1704 and B1706). Likewise, party B1706 has access to communications between himself and party Q1704 since party Q1704 invited party B1706 into the first job 1700A. However, party B1706 does not have the privilege of viewing or participating in communications between parties A1702 and Q1704 since party B1706 was not directly involved in the invitation of one of those two parties. Accordingly, only the creator of the job, party Q1704 in this case, can publish a message to the entire job team as previously discussed in conjunction with FIGs. 17-19B.

The printer (party B1706) then hires a sub vendor C1708 to provide a portion of what is required in the first job 1700A, resulting in the creation of the second job 1700B. Accordingly, the printer B1706 of the first job 1700A becomes a buyer B1706' for the second job 1700B. The sub vendor that party B1706' has hired (party C1708) is invited to join the job team for the second job 1700B. Additionally, the buyer B1706' also invites the creative agency Q1704 (buyer of the first job 1700A) into the second job 1700B as a client Q1704'.

In the second job 1700B, party Q1704' can participate in communications between himself and party B1706' but is not able to view or participate in

communications between parties B1706' and C1708. Likewise, party C1708 can participate in communications between himself and party B1706', but is unable to view or participate in communications between parties B1706' and Q1704'.

Note that the buyer Q1704 of the first job 1700A can publish to the entire
5 team of the first job 1700A, allowing all members of the first job 1700A to view this message. However, this message will not be viewed by members of the second job 1700B even though the second job 1700B is related to the first job 1700A.

Accordingly, a first company working on a project which was originally
commissioned by a second company may be hidden from the second company. For
10 example, a large software company may hire an ad agency to execute a promotional concept. The agency may hire a printer to print brochures and labels and ads for this promotional project. The printer can be hidden from the software company such that only the ad agency deals with the printer. As far as the software company is
concerned, the ad agency appears to be managing all aspects of the promotional

15 project and can be presented with a single price and time estimate that encompasses all aspects of the project. Likewise, the printer that was selected to work with the ad agency on the promotional project may choose to hire a sub vendor, such as a smaller printing company to provide materials for the promotional project, such as the printing of envelops and inserts. In that example, the ad agency does not need to be
20 aware of the sub vendor. Accordingly, communications between the printer and the sub vendor are hidden from the ad agency, thus providing company hiding of the sub vendor from the ad agency.

Each team member of a job, such as the second job 1700B, may create another job associated with the original job. For example, the sub vendor C1708 of the second job 1700B may create a third job 1700C and become the buyer C1708' of the third job 1700C. The buyer C1708' of the third job 1700C may invite a second sub
5 vendor D1710 into the third job 1700C. Buyer C1708' may also choose to invite the party (B1706') who originally invited him onto the second job 1700B as client B1706" for the third job 1700C.

As in the other two jobs, 1700A and 1700B, party B1706" can view and participate with communications between himself and the party who invited him
10 (C1708') but is then unable to view or participate with communications between party C1708' and party D1710. Likewise, party D1710 can participate in communications between himself and party C1708' (who invited him) but not view or participate in communications between parties C1708' and party B1706". Party C1708', as the party who invited both parties B1706" and D1710, can view and participate in
15 communications with both parties.

The first party who originally invited a second party in a previous related job can automatically be included in the second job that was created by the second party. For example, party Q1704' may be automatically included as a client for the second job 1700B. Alternatively, the creator of the new job (party B1706') can actively select
20 or chose not to select every party invited to the new job. For example, party B1706', as buyer of the second job 1700B, may actively select party Q1704' of the first job 1700A to be invited into the second job 1700B as client Q1704'.

FIGs. 24A-24C show examples of company hiding. In this example, a client 1800 hires an advertising agency 1802 to execute a promotional project. The ad agency manages magazine advertisements, websites, direct mail projects, and TV spots for the promotional project. In accomplishing this task, the ad agency 1802
5 contracts to work with a prepress agency 1804 and a printer 1806.

In FIG. 24B, the ad agency 1802 has hired the prepress agency 1804 to work on the magazine ad and the website and the printer 1806 to work on the direct mail project. In this example, the ad agency 1802 will have a first job coordinated through a URL with the prepress agency 1804 and a second job coordinated through another
10 URL with the printer 1806. In the first job, the job team would include the client 1800, the ad agency 1802, and the prepress agency 1804. In the second job, the team would include the client 1800, the ad agency 1802 and the printer 1806. The client 1800 communicates with the ad agency 1802, but is unaware of the existence of the prepress 1804 and the printer 1806. Both the prepress agency 1804 and the printer
15 1806 are hidden from the client 1800. The client does not know, nor needs to know the existence of the prepress agency 1804 and the printer 1806 in this example, since the ad agency 1802 manages all communications with these companies. Accordingly, the prepress agency 1804 and the printer 1806 are companies that are hidden from the client.

20 In FIG. 24C, the prepress agency 1804 has hired a third printer 1810 to provide an insert for one of the magazine ads. Additionally, the printer 1806 has hired a second printer 1808 to provide envelopes and a poster for the direct mail project. In this example, the existence of the second printer 1808 and the third printer

1810 are hidden from the ad agency 1802 such that the ad agency 1802 only needs to deal with the prepress agency 1804 and the printer 1806. Additionally, the client 1808 is still only aware of the ad agency 1802 and is unaware of the prepress agency 1804, the printer 1806, the second printer 1808, and the third printer 1810.

5 Accordingly, these companies are hidden from the client 1800.

A method and system for managing a project has been disclosed. Software written according to the present invention may be stored in some form of computer-readable medium, such as memory or CD-ROM, or transmitted over a network, and executed by a processor.

10 Although the present invention has been described in accordance with the embodiment shown, one of ordinary skill in the art will readily recognize that there could be variations to the embodiment and these variations would be within the spirit and scope of the present invention. Accordingly, many modifications may be made by one of ordinary skill in the art without departing from the spirit and scope of the
15 appended claims.

CLAIMS

1. A method for managing a print project comprising:
storing a print specification, wherein the specification is associated with a
5 URL on the Internet;
coordinating communications between a buyer and a printer regarding the
print project, wherein the buyer and the printer both view the print specification
through the URL on the Internet;
inviting a party to join the print project; and
10 associating a role with the party, wherein the role is associated with an access
right to information.
2. The method of claim 1, further comprising automatically sending a
notification to the party if it is determined that the notification is relevant to the party's
15 role.
3. The method of claim 1, further comprising changing the specification, wherein
the changed specification is accessed through the URL.
- 20 4. The method of claim 1, wherein the access right limits access to information.
5. The method of claim 1, wherein the access right of a first role precludes
editing rights.
- 25 6. The method of claim 1, wherein the printer may not view a second printer's
estimate.
7. The method of claim 1, wherein the access right of a second role includes
viewing rights but precludes editing rights.
30 8. The method of claim 1, wherein the access right of a third role includes both
viewing rights and editing rights.
9. The method of claim 1, wherein a file may be associated with the
35 specification.
10. The method of claim 1, wherein a message may be posted such that the
message is accessible through the Internet.
- 40 11. The method of claim 1, wherein a status of the print project may be viewed
through the Internet.
12. The method of claim 1, further comprising posting a message.
- 45 13. The method of claim 12, wherein the message is posted to a team associated
with the print project.

14. The method of claim 12, wherein the message is posted to people associated with a company.
- 5 15. The method of claim 12, wherein the message is posted to a team member with a second role.
16. The method of claim 12, wherein the message is posted to a person.
- 10 17. The method of claim 12, wherein the message can be viewed only by a creator of the message.
18. The method of claim 1, further comprising a second print project associated with the print project, wherein a member of a team associated with the second print project does not have access to a message posted on the print project.
- 15 19. The method of claim 1, wherein a second party associated with the print project does not have access to a message posted by a third party who was not directly involved with an invitation associated with the second party.
- 20 20. A method for managing a print project comprising:
storing a print specification, wherein the specification is associated with a URL on the Internet;
inviting a party to join the print project; and
25 associating a role with the party, wherein the role is associated with an access right to information.
21. A system for managing a print project comprising:
a processor configured to store a print specification, wherein the specification
30 is associated with a URL on the Internet; the processor also being configured to coordinate communications between a buyer and a printer regarding the print project, wherein the buyer and the printer both view the print specification through the URL on the Internet; to invite a party to join the print project; and to associate a role with the party, wherein the role is associated with an access right to information; and
35 a memory coupled with the processor, the memory being configured to provide the processor with instructions.
22. A computer program product for managing a print project comprising:
40 computer code storing a print specification, wherein the specification is associated with a URL on the Internet;
computer code coordinating communications between a buyer and a printer regarding the print project, wherein the buyer and the printer both view the print specification through the URL on the Internet;
45 computer code inviting a party to join the print project;
computer code associating a role with the party, wherein the role is associated with an access right to information; and
a computer readable medium that stores the computer codes.

23. The computer program product of claim 22, wherein the computer readable medium is selected from the group consisting of CD-ROM, floppy disk, tape, flash memory, system memory, hard drive, and data signal embodied in a carrier wave.

5

24. A method for managing a project comprising:
storing a project description, wherein the description is associated with a URL
on the Internet;
inviting a party to join the project; and
10 associating a role with the party, wherein the role is associated with an access
right to information.

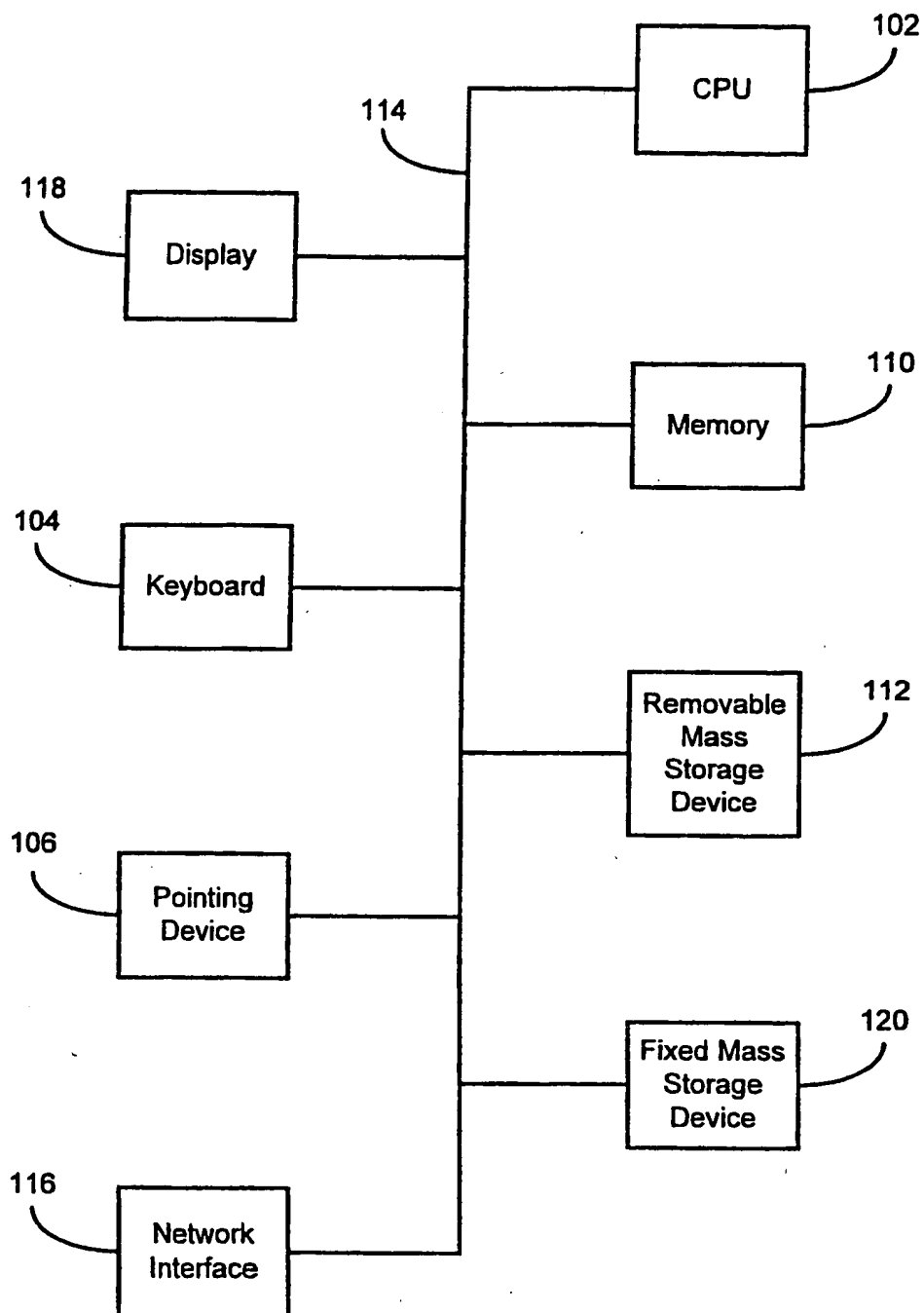


FIG 1

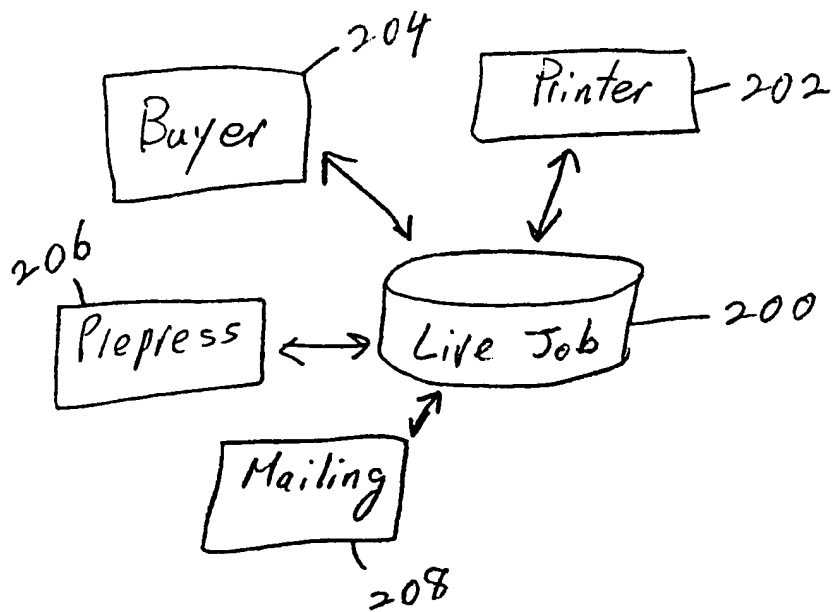


FIG 2

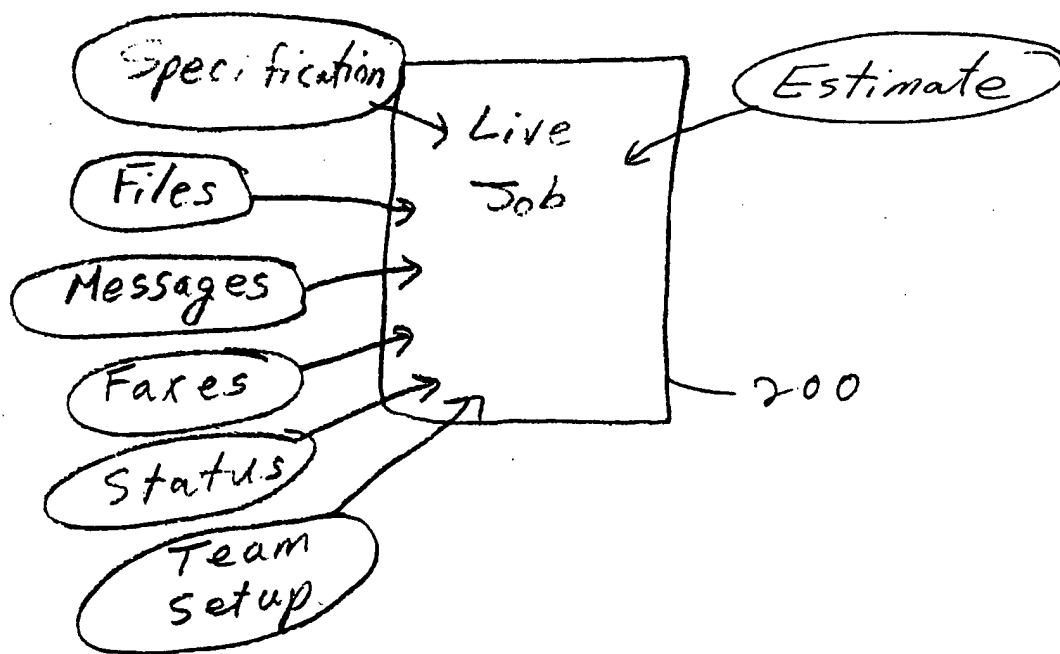


FIG 3

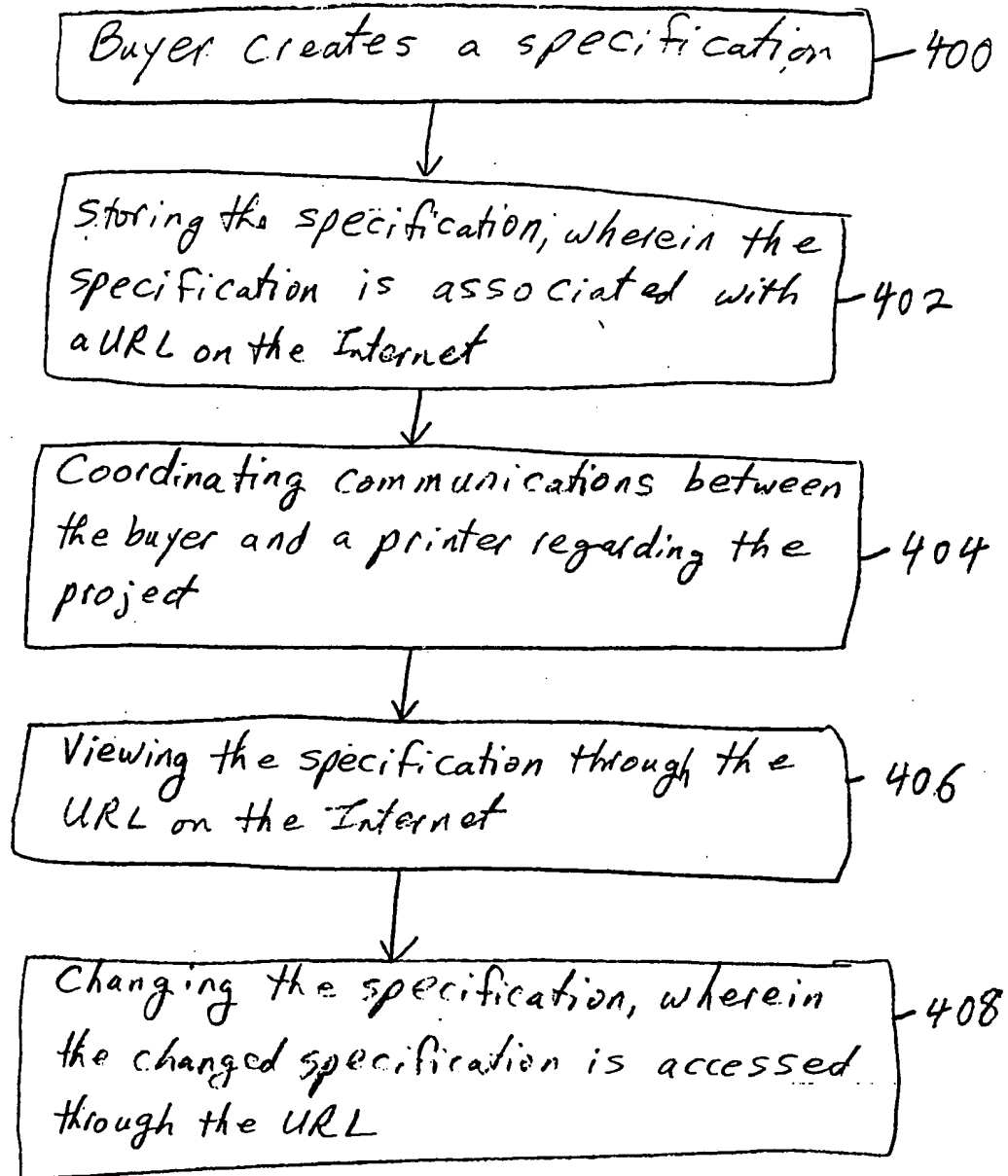


FIG 4

Noosh.com - Shannon Powell - Jobs

NOOSH Welcome, Shannon Powell

HOME | MY DESK | JOBS | SEARCH | CUSTOMER SERVICE | FEEDBACK | LOG OUT

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered

New Credit Line brochure


Job Home

- Messages
- Specs
- Estimates
- Tracking
- Order
- Shipments
- Files
- Members

About This Job

Job Type: Brochure
 Noosh ID: 728
 Job Number: 900
 Client Company: Marketing

Current Status: Order Accepted



Order Accepted

Updated 12:14 PM on Thursday, July 1st, 1999 by Doug Anderson of House of Printing.

Most Recent Messages

There are no new messages. [Post a New Message](#)

Most Recent Events

| Date | Time | Event | Person | Comments |
|---------|----------|--------------------|-----------------------|--|
| 7/1/99 | 12:14 PM | Order Accepted | <u>Doug Anderson</u> | Order Accepted by Doug Anderson for Job New Credit Line brochure |
| 6/16/99 | 1:01 PM | Order Created | <u>Shannon Powell</u> | Order Created by Shannon Powell for Job New Credit Line brochure |
| 6/16/99 | 7:14 AM | Estimate Submitted | <u>Doug Anderson</u> | Quotes Received for RFE #545 for Job New Credit Line brochure |
| 6/16/99 | 6:38 AM | Estimate Submitted | <u>John Hoffmeins</u> | Quotes Received for RFE #545 for Job New Credit Line brochure |
| 6/16/99 | 6:05 AM | Estimate Submitted | <u>Tom Vargas</u> | Quotes Received for RFE #545 for Job New Credit Line brochure |

Team Members for Job "New Credit Line brochure"

Logged In: Shannon Powell 0

FIG 5

Noosh.com - Shannon Powell - Jobs

Page 1 of

NOOSH Welcome, Shannon Powell

HOME | **MY DESK** | JOBS | SEARCH

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered

Jobs

Here you can view and manage your Noosh print jobs.

Shannon Powell
NationsCorp

All Open Jobs

| Noosh Job # | Job Name | Your Role | Status | Client | Due Date | Assignee |
|-------------|---------------------------------|-----------|-----------------------|----------------------|----------|----------------|
| 724 | New Account Statement Insert | Buyer | Order Accepted | New Business | 6/30/99 | Rich Brown |
| 725 | Employee Reference guide | Buyer | Completed and Shipped | Human Resources | 7/12/99 | Doug Anderson |
| 726 | New Credit Line brochure | Buyer | Order Accepted | Marketing | 6/28/99 | Rich Brown |
| 727 | Gold member presentation folder | Buyer | New | Business Development | 8/2/99 | |
| 728 | Senior Line of Credit Promo | Buyer | Completed and Shipped | Business Development | 7/21/99 | John Pappas |
| 731 | New Secured Loan Program | Buyer | Completed and Shipped | Marketing | 8/5/99 | John Hoffmeins |
| 732 | 401K Reminder | Buyer | New | New Business | 8/5/99 | |
| 733 | On line banking brochure | Buyer | Order Accepted | New Business | 8/10/99 | Doug Anderson |
| 734 | Executive class letterhead | Buyer | Order Accepted | New Business | 8/8/99 | Doug Anderson |
| 735 | Student Loan rollout | Buyer | New | Business Development | 7/15/99 | |
| 737 | New Fund Reference Card | Buyer | New | Banking | 7/25/99 | |
| 738 | Internet banking guidelines | Buyer | New | Internet Banking | | |
| 739 | IRA options guide | Buyer | Completed and Shipped | Investments | 8/15/99 | Doug Anderson |
| 740 | Investment Disclaimer | Buyer | New | Investments | 8/4/99 | |

6/29 FIG 6

Noosh.com - Shannon Powell - Jobs

HOME | HE | CUSTOMER SERVICE | FEEDBACK | LOG OUT

Welcome, Shannon Powell

MY DESK | JOBS | SEARCH

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered


New Credit Line brochure

Job Home
Messages
Screen
Estimates

Tracking

Order
Shipments
Files
Members

Current Status: Order Accepted



Order Accepted

Updated 12:14 PM on Thursday, July 1st, 1999 by Doug Anderson of House of Printing.

Job Event Tracking

| DATE | TIME | EVENT | PERSON | COMMENTS |
|---------|----------|---------------------|----------------|--|
| 7/1/99 | 12:14 PM | Order Accepted | Doug Anderson | Order Accepted by Doug Anderson for Job New Credit Line brochure |
| 6/16/99 | 1:01 PM | Order Created | Shannon Powell | Order Created by Shannon Powell for Job New Credit Line brochure |
| 6/16/99 | 7:14 AM | Estimate Submitted | Doug Anderson | Quotes Received for RFE #545 for Job New Credit Line brochure |
| 6/16/99 | 8:38 AM | Estimate Submitted | John Hoffmeins | Quotes Received for RFE #545 for Job New Credit Line brochure |
| 6/16/99 | 8:05 AM | Estimate Submitted | Tom Vargas | Quotes Received for RFE #545 for Job New Credit Line brochure |
| 6/15/99 | 9:04 AM | Estimate Submitted | John Pappas | Quotes Received for RFE #545 for Job New Credit Line brochure |
| 6/14/99 | 5:40 PM | Estimates Requested | Shannon Powell | RFE #545 sent for Job New Credit Line brochure |

FIG 7

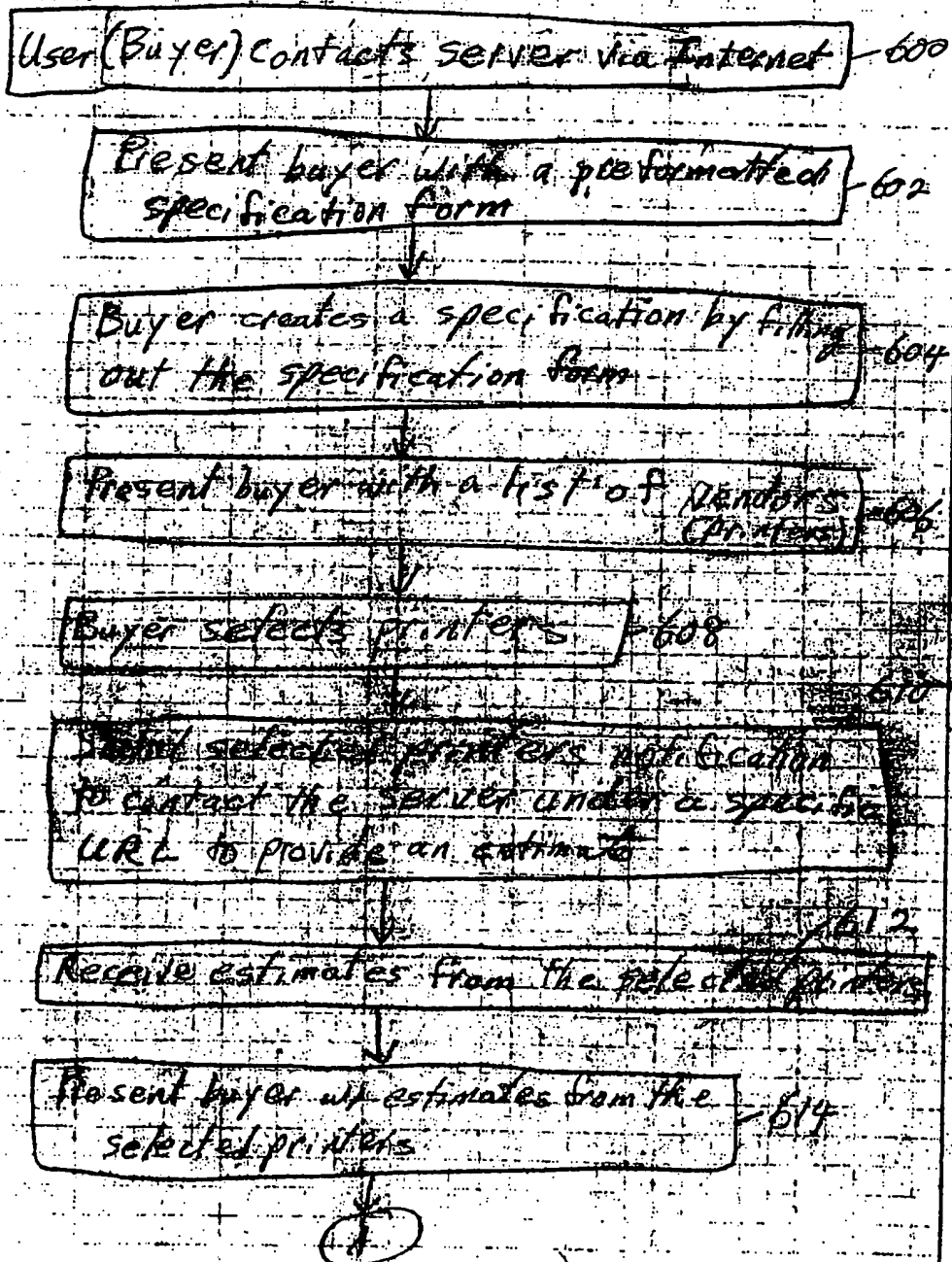


FIG. 8A

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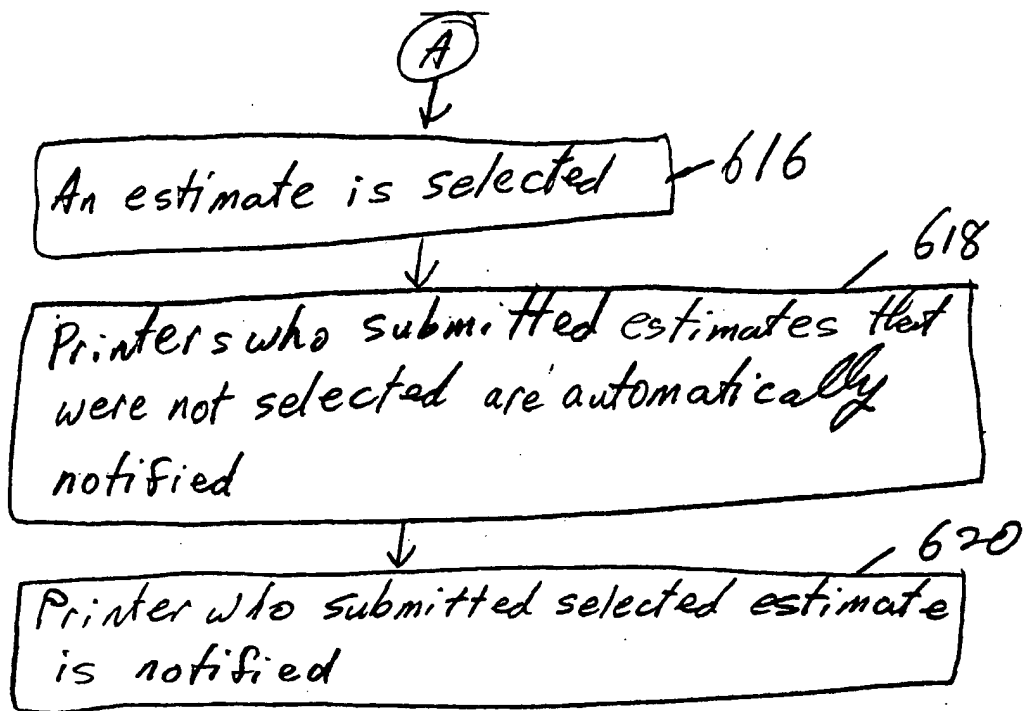


FIG 8B

Noosh.com - Shannon Powell - Jobs

HOME | NOOSH | CUSTOMER SERVICE | FEEDBACK | LOG OUT

Welcome, Shannon Powell

MY DESK | JOBS | SEARCH

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered

Untitled Job

Job Home
Messages
Specs
Estimates
Tracking
Order
Submitters
Files
Members

Original Job Spec.

Category

Which category best describes your printed piece?

Brochure Other:

Comments:

Job Description

Job Number: 1164

Job Name: Untitled Job

Job Description:

Client Company:

Due Date:

Noosh ID: 1164

Comments:

Size

Flat Size: x

Finish Size: x

Page Count: Prints

Cover Style:

Comments:

Quantities

| Quantity 1 | Quantity 2 | Quantity 3 | Quantity 4 | Quantity 5 |
|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Stocks & Inks

Add Stock...

Comments:

Noosh.com - Shannon Powell - Jobs

HOME | **CUSTOMER SERVICE** | FEEDBACK | LOG OUT

Welcome, Shannon Powell

NOOSH

MY DESK JOBS **SEARCH**

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered

Jobs

Job Home
Messages
Specs
Estimates
Tracking
Order
Shipments
Files
Members

Stocks **Save**

*Used As: **Stock 1**

Stock Name: Other:

Type of Stock: Other:

Finish: Other:

Weight: Other: lb

Coating: Other:

Color:

Comments:

Inks **Save**

Inks Specs for Each Side

Inks for Both Sides

Specify Colors:

☐ 4 Color Process

☐ Black

☐ Docutech

☐ PMS Colors Number of PMS Colors: Specify PMS Colors:

☐ Metallic Ink Number of Colors:

Coating 1:

Coating 2:

☐ Use Wax-Free inks

☐ Double Hit


Ink

Coverage:

☐ Bleeds

Comments:

Noosh.com - Shannon Powell - Jobs


 Welcome, Shannon Powell
 [HOME](#) | [CUSTOMER SERVICE](#) | [FEEDBACK](#) | [LOG OUT](#)

[MY DESK](#) | [JOBS](#) | [SEARCH](#)

[Open Jobs](#) | [New Jobs](#) | [Estimating](#) | [Ordered](#) | [Shipping](#) | [Delivered](#)

New Credit Line brochure

[Job Home](#)
[Messages](#)
[Specs](#)
[Estimates](#)
[Tracking](#)
[Order](#)
[Shipments](#)
[Files](#)
[Members](#)

Specs for Job: New Credit Line brochure

| Spec | Created By | Creation Date | Description |
|--|----------------|-----------------|-------------|
| New Credit Line brochure | Shannon Powell | 6/10/99 8:43 PM | |

Request for Estimate: (Noosh RFE#545)

Status: Estimating
 Closed

Bids Due: 6/17/99
 5:00 PM

Job Done: 6/28/99
 5:00 PM

Details:
Sent to: Doug Anderson, John Pappas, John Hoffheins, Tom Vargas

Spec 688 (New Credit Line brochure) Estimates

| Estimate # | Company | Author | Submitted | Expires | 300,000 | 600,000 |
|---------------------|--|--------------------------------|-----------------|-----------------|-------------|-------------|
| 531 | The Dot Printer | John Pappas | 6/15/99 9:04 AM | 6/23/99 5:00 PM | \$35,879.00 | \$59,840.00 |
| 541 | Mobius Press | Tom Vargas | 6/16/99 6:05 AM | 6/25/99 5:00 PM | \$35,189.00 | \$58,540.00 |
| 549 | George Rice & Sons | John Hoffheins | 6/16/99 6:38 AM | 6/24/99 5:00 PM | \$38,280.00 | \$58,160.00 |
| 564 | House of Printing | Doug Anderson | 6/16/99 7:14 AM | 7/7/99 5:00 PM | \$48,784.00 | \$76,521.00 |

FIG 10

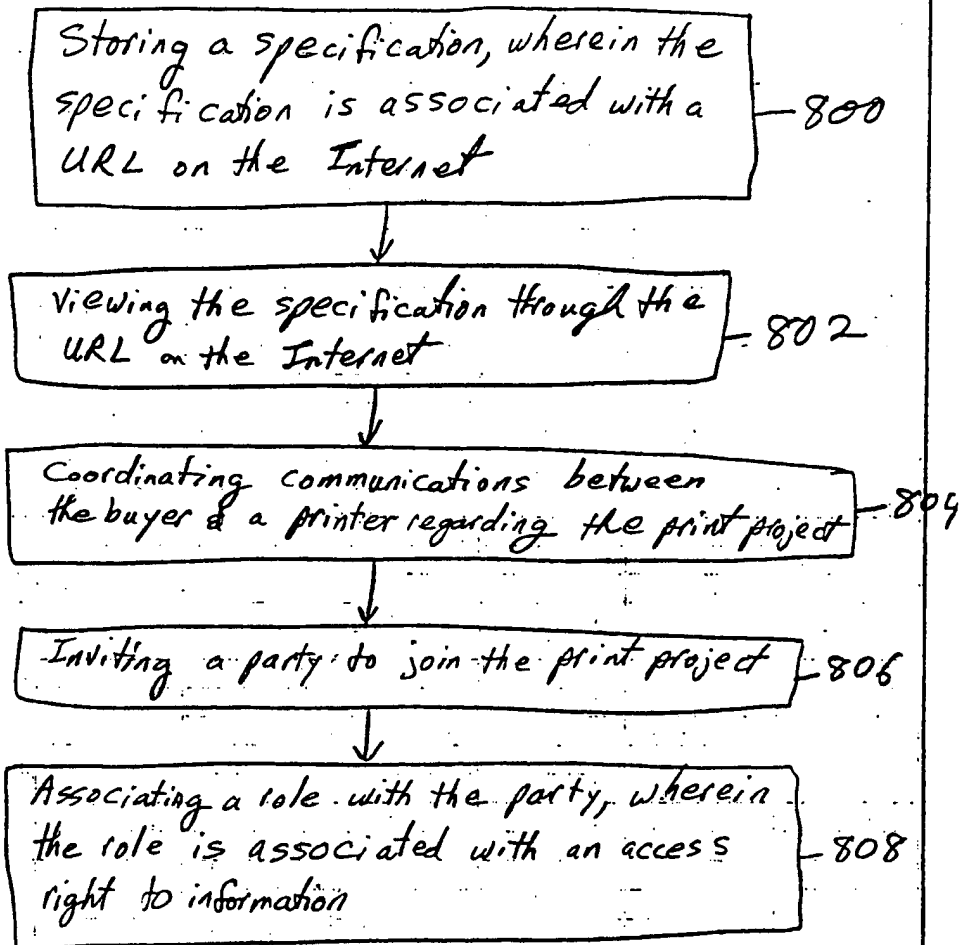


FIG 11

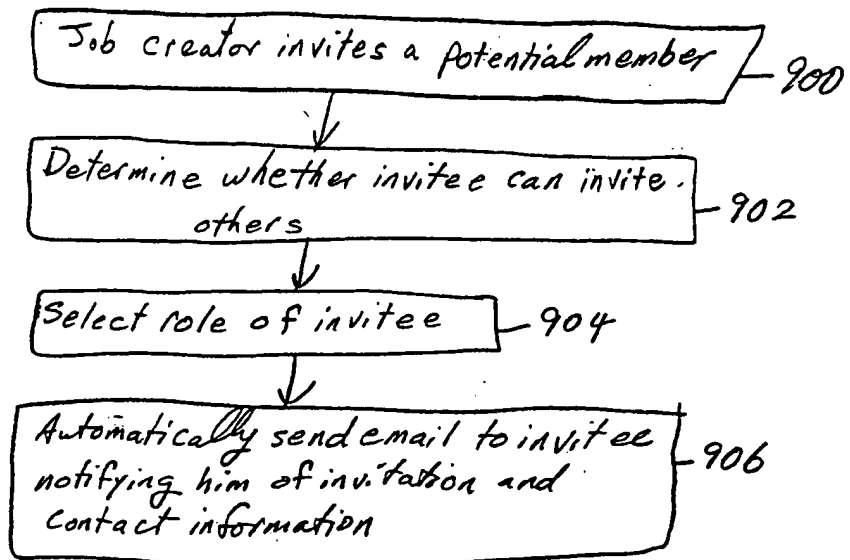


FIG 12

Noosh.com - Shannon Powell - Jobs

HOME | HELP | CUSTOMER SERVICE | FEEDBACK | LOG OUT

NOOSH

Welcome, Shannon Powell

MY DESK JOBS SEARCH

Open Jobs | New Jobs | Estimating | Created | Shipping | Delivered

Untitled Job

Job Home
Messages
Stats
Estimates
Tracking
Order
Shipments
Files

Members

Job Team
Job Home
Messages
Stats
Estimates
Tracking
Order
Shipments
Files

Job Team

▼ Choose Invitees

Select the people you want to invite.

| Contacts | | | | |
|--------------------------|----------------|--------------------------|--------------|---------------------------|
| Personal Shared All | | | | |
| | Name | Company | Phone | Email |
| <input type="checkbox"/> | Doug Anderson | House of Printing | 850-984-9701 | doug@housexx.com |
| | Sarah Amdt | Nation Mail Inc. | | sarah@nationalmail.com |
| <input type="checkbox"/> | David Arnold | America Printing Co. | 650-348-2333 | david@americaxx.com |
| <input type="checkbox"/> | Jeff Essex | Far Western Graphics | 408-481-9777 | jeff@fwgxx.com |
| <input type="checkbox"/> | Bruce Frost | ColorGraphics | 415-821-7171 | bruce@cgsbox.com |
| <input type="checkbox"/> | Tom Hall | Custom Printing | 888-327-7700 | tom@customxx.com |
| | Jeff Hamilton | NationsCorp Fullfillment | 258-124-3487 | jeff@nationscorp.com |
| | Barbara Hansen | NationsCorp | | barbarah@nationscorp.com |
| <input type="checkbox"/> | Bob Hams | Bofors, Incorporated | 850-358-3777 | bob@boforsxx.com |
| | Joe Henry | NationsCorp | 415-123-1235 | joeh@nationscorp.com |
| <input type="checkbox"/> | John Hoffmeins | George Rice & Sons | 415-488-0900 | john@georgexx.com |
| | Les Howard | Optimum Graphics | | les@optimumgraphics.com |
| | Diana Jacobs | Weston Mailhouse | | diana@westonmailhouse.com |
| <input type="checkbox"/> | John Pappas | The Dot Printer | 850-259-1050 | pappas@dobox.com |
| <input type="checkbox"/> | Shannon Powell | NationsCorp | 415-123-1234 | shannon@nationscorp.com |
| | Jean Swanson | Utility Workshop | | jean@utilityworkshop.com |
| <input type="checkbox"/> | Tom Vargas | Mobius Press | 510-839-3931 | tom@mobiusxx.com |
| <input type="checkbox"/> | liza boyd | RDC | 111-111-1111 | liza@noosh.com |

Prepare Invitation

FIG 13

Nosh.com - Shannon Powell - Jobs

Page 1 of

NOSH Welcome, Shannon Powell

HOME | HR | CUSTOMER SERVICE | FEEDBACK | LOG OUT

MY DESK | JOBS | SEARCH:

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered

New Credit Line brochure

Job Home
Messages
Search
Estimates
Tracking
Orders
Shipments
Files

Members

Team Members

| Name | Role | Email | Phone | Company | Invited | Joined |
|----------------|---------|-------------------------|--------------|-------------------|---------|-----------------|
| Shannon Powell | Buyer | shannon@nationscorp.com | 415-123-1234 | NationsCorp | | |
| Doug Anderson | Printer | doug@housexx.com | 650-984-9701 | House of Printing | | 6/14/99 5:40 PM |

FIG 14

| |
|---------------------------|
| Security Manager Database |
|---------------------------|

| action/rule | Rules for Buyers | Rules for Printers | Rules for Designers | Rules for Guests | Rules for Clients | Rules for Estimators | Rules for Group Members | Rules for Group Managers |
|--------------------------|------------------------|--------------------------|---------------------------|------------------------|-------------------------|----------------------------|----------------------------------|-----------------------------------|
| JOB.VIEW | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> |
| JOB.INVITE_PERSON | <u>Yes</u> | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>Yes</u> | <u>No</u> | <u>Yes</u> |
| JOB.UPDATE_JOB | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.CREATE | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>No</u> | <u>Yes</u> |
| JOB.CREATE_RFE | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.VIEW_RFE | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.CREATE_ESTIMATE | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>Yes</u> | <u>No</u> | <u>No</u> |
| JOB.VIEW_ESTIMATE | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.CREATE_ORDER | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>Yes</u> |
| JOB.VIEW_ORDER | <u>Yes</u> | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.UPDATE_ORDER | <u>Yes</u> | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.ACCEPT_ORDER | <u>No</u> | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.ACCEPT_PENDING_ORDER | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.INVITE_ANYBODY | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.INVITE_PRINTER | <u>No</u> | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.INVITE_ESTIMATOR | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.CREATE_SPEC | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>Yes</u> | <u>No</u> | <u>No</u> |
| JOB.UPDATE_SPEC | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>Yes</u> | <u>No</u> | <u>No</u> |
| JOB.DELETE_SPEC | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>Yes</u> | <u>No</u> | <u>No</u> |
| JOB.UPDATE_ANY_SPEC | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.VIEW_ANY_RFE | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.VIEW_ANY_ESTIMATE | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.VIEW_ANY_ORDER | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.SUBMIT_CHANGE_ORDER | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.VIEW_SPEC | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>No</u> | <u>Yes</u> |
| JOB.VIEW_ANY_SPEC | <u>Yes</u> | <u>No</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> |
| JOB.VIEW_JOB | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> |

FIG 15

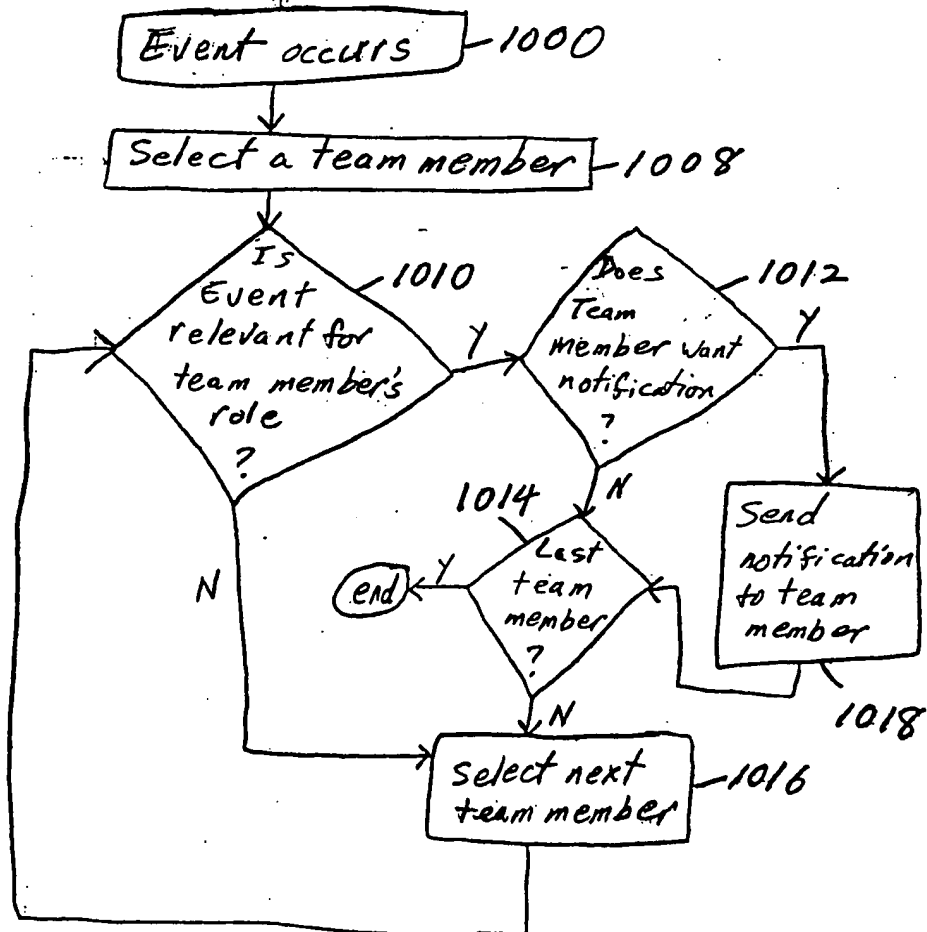


FIG 16

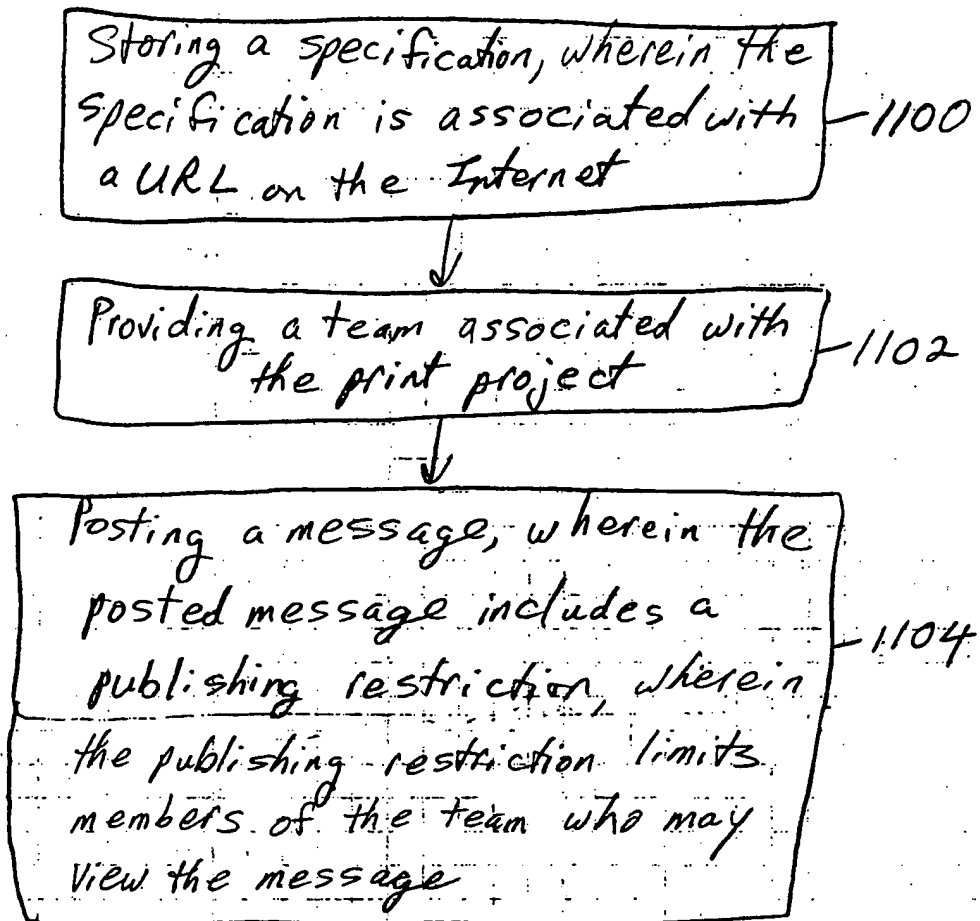


FIG 17

NOOSH Welcome, Mizzat Spolizzo! Tip Toe Through The Tulips

HOME | HELP | CUSTOMER SERVICE | FEEDBACK | LOG

MY DESK | JOBS | SEARCH

Home | About | Features | Contact | Privacy | Terms | Sitemap | New Job

Fall Promotional Campaign

Original Message

to: Job Team (Everyone on the job team)

from: automatt (Mizzat Spolizzo) posted: 08/01/99 12:08:56 AM

this is a reply to your message from before.

Type your message here:

Subject: Re: Re: Zippy zippy

Compared with other types of manufacturing, Printers have come to a very late understanding of the potential benefits to be reaped from process design reengineering.

However, the move to all-digital workflow is now fairly well understood if not yet widely practised. Printers and buyers wishing to move to computer-to-plate, digital printers, and a few savvy prepress shops are leading the way.

Share your message with:

☐ The entire job team (1 people) OR

☒ People from a company: **Noosh Admin Group**

☒ People with a specific role: **CLIENT**

☐ A specific person: **Drui H**

Don't show to anyone (for your eyes only)

Finished!

Post Message

FIG 18

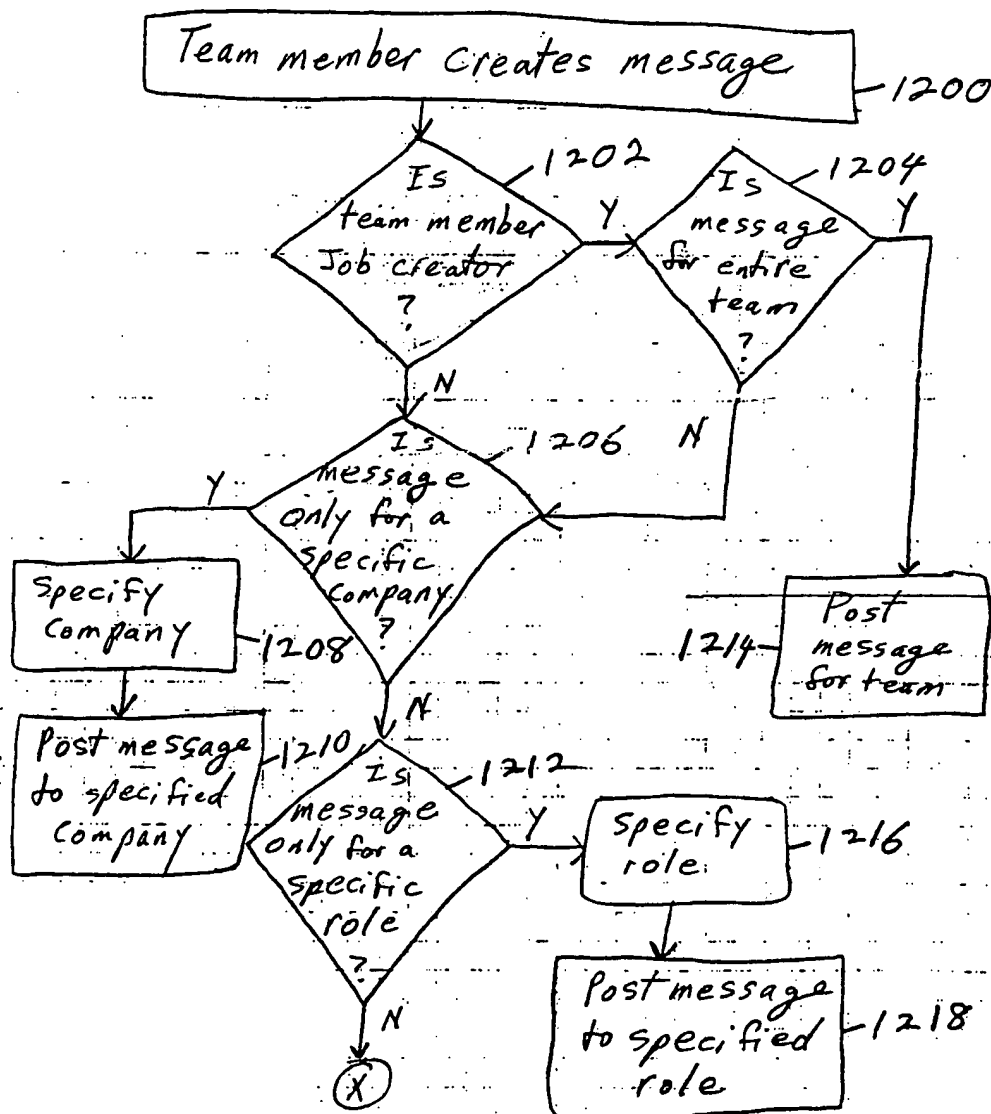


FIG 19A

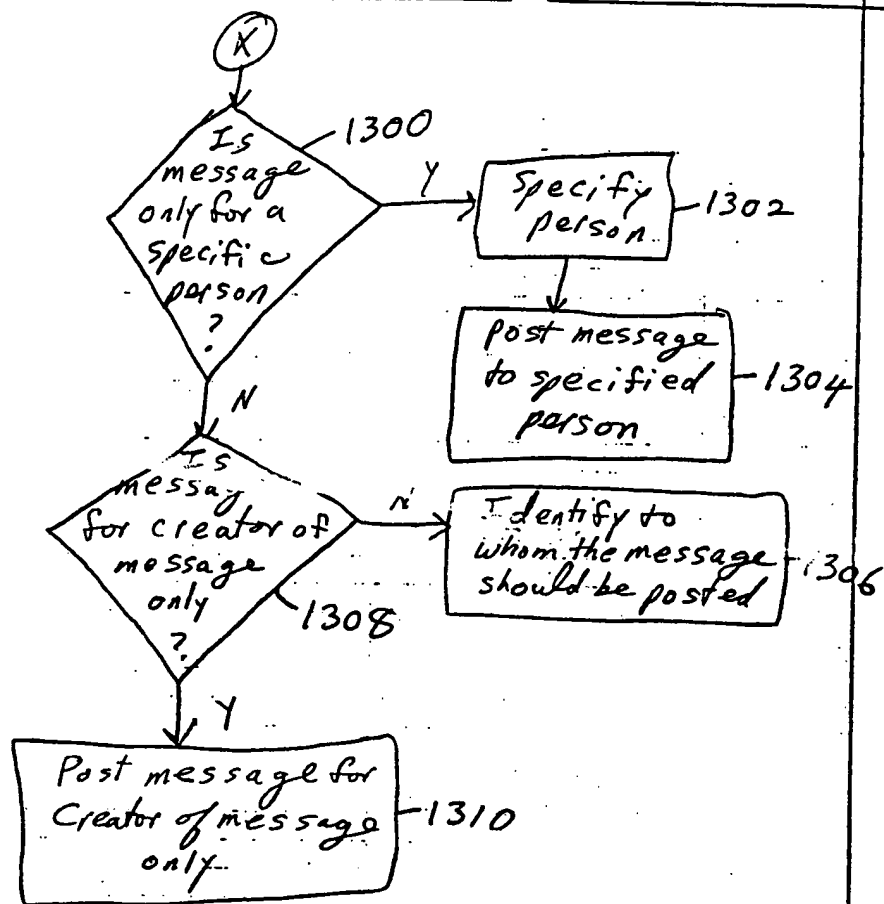


FIG. 19B

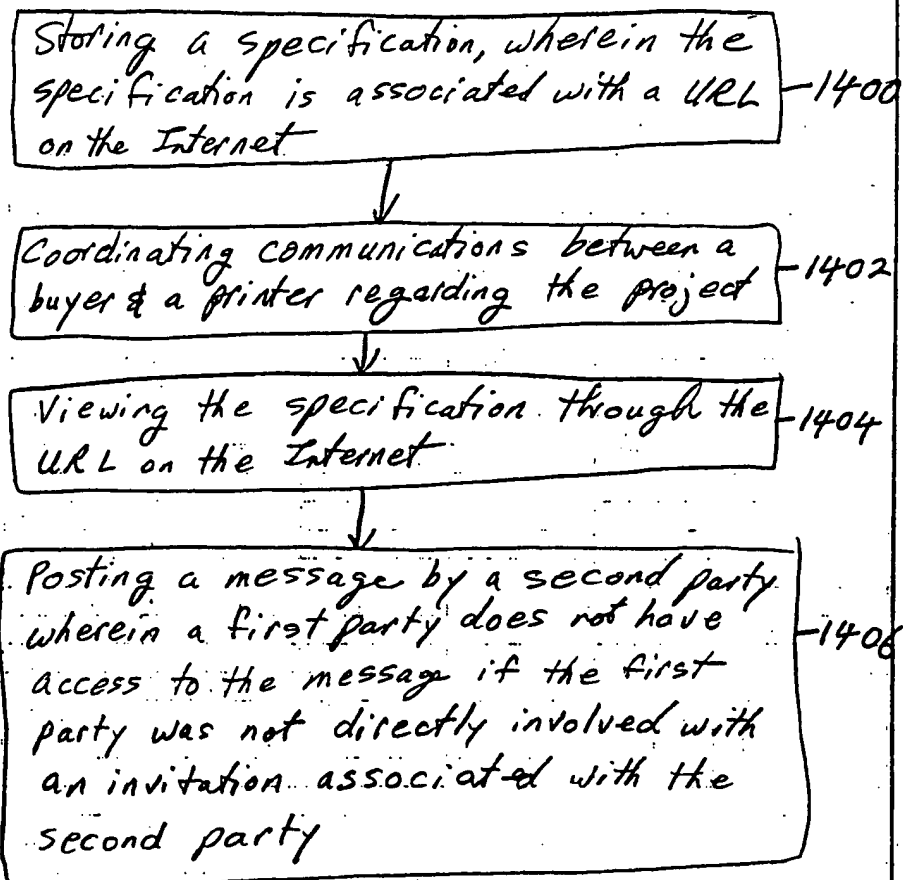


FIG 20

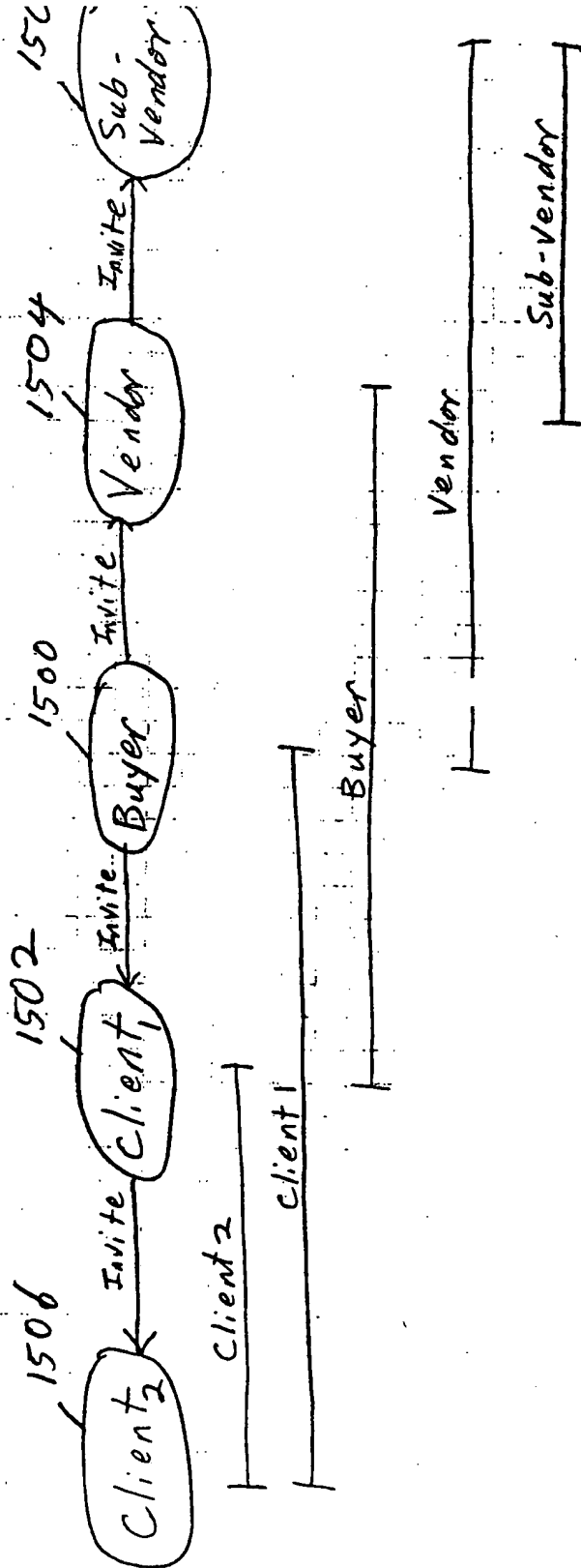


FIG 21

Storing a specification for a first print project, wherein the specification is associated with a URL on the Internet -1600

Viewing the specification through the URL on the Internet -1602

Coordinating communications between a buyer & a printer regarding the first print project -1604

Posting a message, wherein a party associated with a second print project does not have access to the message, and wherein the second print project is associated with the first print project -1606

FIG 22

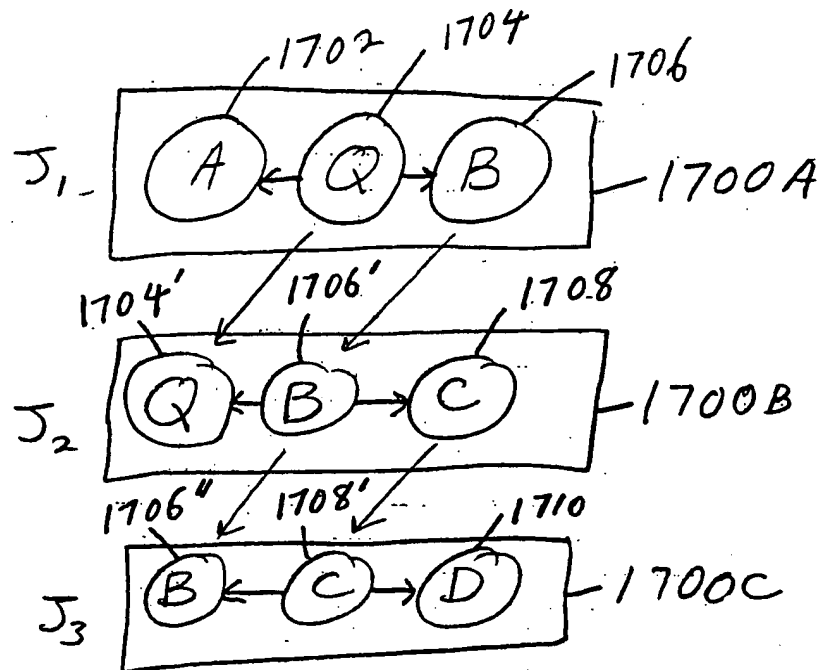


FIG 23

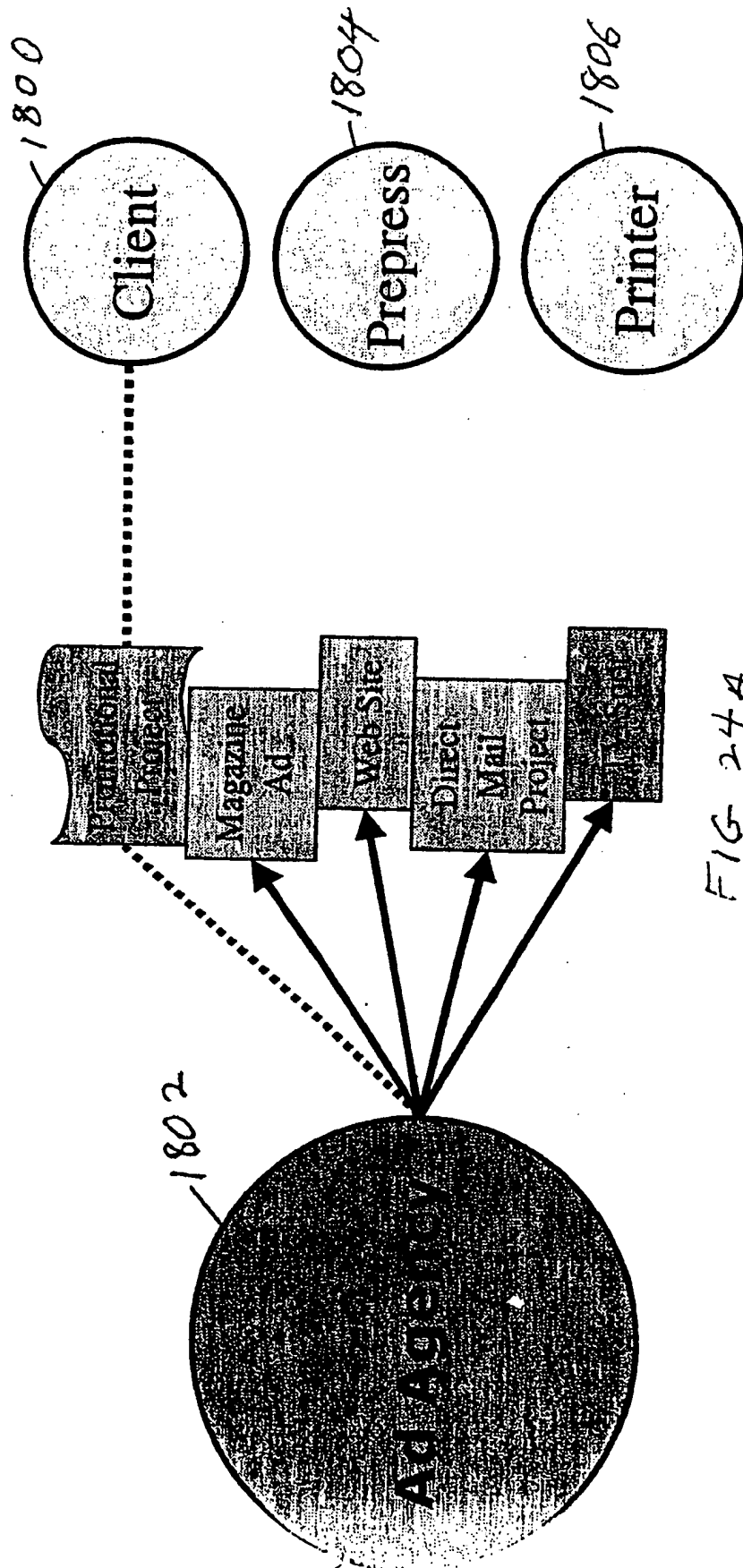


FIG. 24A

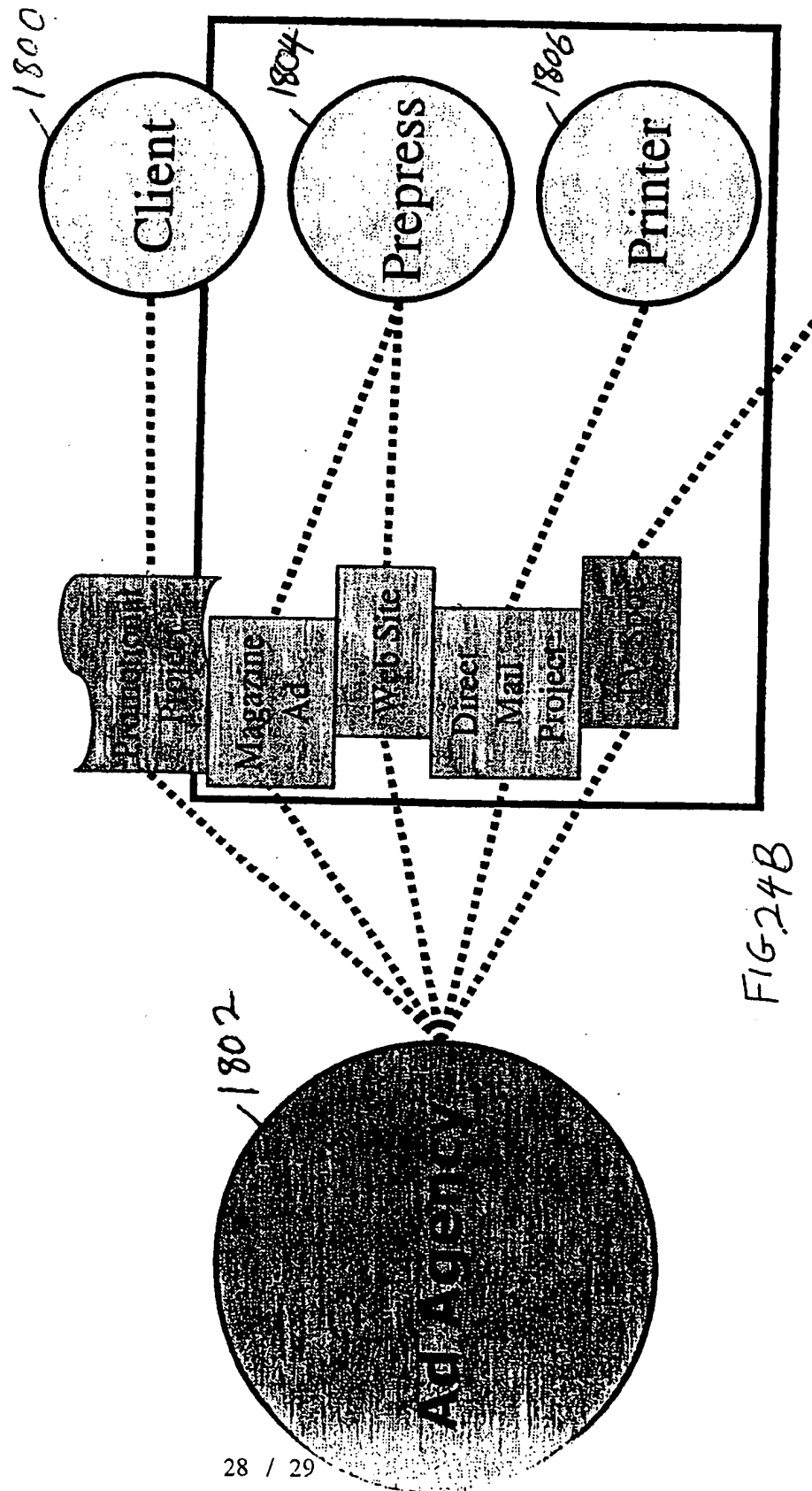
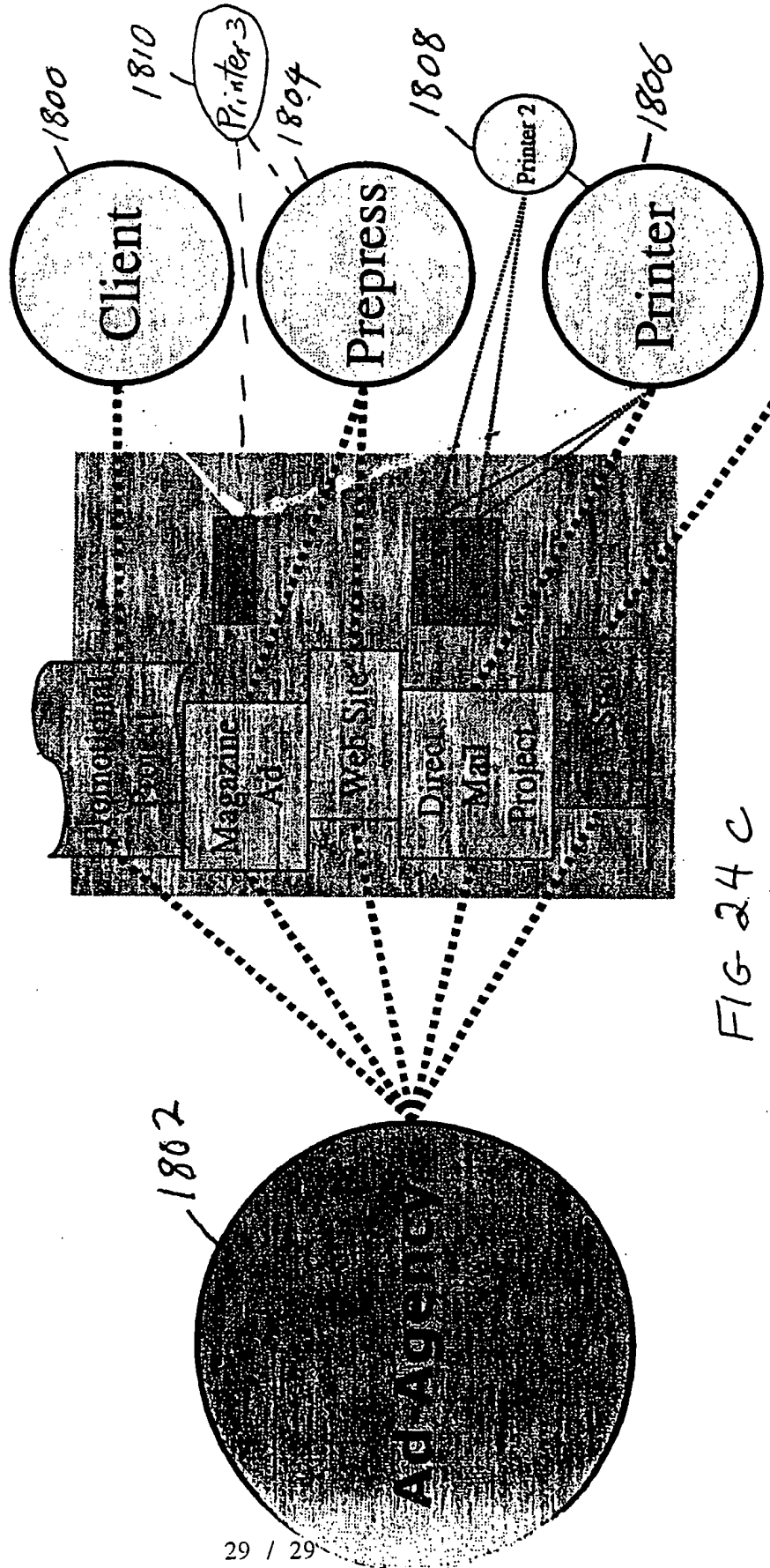


FIG 24B



INTERNATIONAL SEARCH REPORT

I. national application No.
PCT/US00/40714

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :G06F 13/38, 15/17, 17/30, 17/60

US CL :Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/329, 331; 705/14; 707/1, 9, 10, 104, 501, 513, 514, 533, 906; 709/203, 219

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DIALOG

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y, P | US 6,026,371 A (BECK ET AL.) 15 FEBRUARY 2000, COL.1-3. | 1-24 |
| Y,P | FIEDLER, E. How to succeed in e-business. May 2000. See entire document. | 1-24 |
| Y, P | Printmountain: 'only 20% based on price'. August 2000. See entire document. | 1-24 |
| A, P | US 6,088,702 A (PLANTZ ET AL.) 11 JULY 2000, COL.4-11. | 1-24 |
| A | US 5,870,552 A (DOZIER ET AL.) 09 FEBRUARY 2000, COL.3-17. | 1-24 |

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

| | |
|---|--|
| * Special categories of cited documents: | *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| *A* document defining the general state of the art which is not considered to be of particular relevance | *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| *E* earlier document published on or after the international filing date | *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | *A* document member of the same patent family |
| *O* document referring to an oral disclosure, use, exhibition or other means | |
| *P* document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search

13 NOVEMBER 2000

Date of mailing of the international search report

26 DEC 2000

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

GLEN BURGESS

Telephone No. (703) 305-4792

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/40714

A. CLASSIFICATION OF SUBJECT MATTER:

US CL :

345/329, 331; 705/14; 707/1, 9, 10, 104, 501, 513, 514, 533, 906; 709/203, 219

Form PCT/ISA/210 (extra sheet) (July 1998)★

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 March 2001 (08.03.2001)

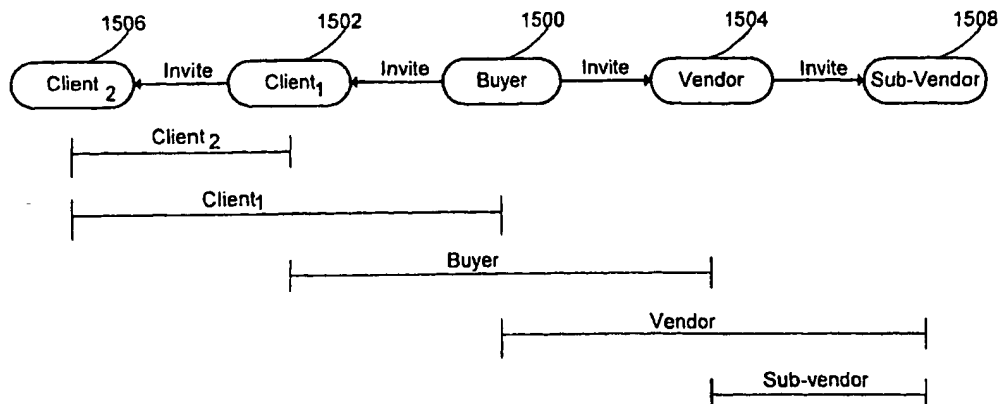
PCT

(10) International Publication Number
WO 01/16771 A1

- (51) International Patent Classification⁷: G06F 13/38, 15/17, 17/30, 17/60 (74) Agent: YI, Susan, C.; Ritter, Van Pelt & Yi LLP, 4906 El Camino Real, Suite 205, Los Altos, CA 94022 (US).
- (21) International Application Number: PCT/US00/40714 (81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 22 August 2000 (22.08.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/386,027 30 August 1999 (30.08.1999) US
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09/385,180 30 August 1999 (30.08.1999) US
09/385,179 30 August 1999 (30.08.1999) US
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant: NOOSH, INC. [US/US]; Building B, 3401 Hillview Avenue, Palo Alto, CA 94304 (US). Published:
— with international search report
- (72) Inventors: SPOLIN, Mathew, L.; 300 Beale Street #501, San Francisco, CA 94195 (US). BEN-SHACHAR, Ofer; 806 Seale Avenue, Palo Alto, CA 94303 (US). HANNEBRINK, Dave; 35750 Moody Road, Los Altos Hills, CA 94022 (US). (48) Date of publication of this corrected version: 10 May 2002
- (15) Information about Correction: see PCT Gazette No. 19/2002 of 10 May 2002, Section II

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR MANAGING PROJECTS USING ACCESS RIGHTS



(57) Abstract: According to an embodiment of the present invention, projects involving multiple parties are collaborated through a service accessed via a network such as the Internet. For example, a print job can be coordinated by having a buyer (1500), a vendor (1504), subvendors (1508), and clients of the buyer access a server through the Internet wherein all individuals involved with the print job works with a single updated specification that is uniform for all individuals involved. Additionally, according to an embodiment of the present invention, the coordination of the project includes managing communications involved with the project.

WO 01/16771 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

SYSTEM AND METHOD FOR MANAGING PROJECTS USING ACCESS RIGHTS

FIELD OF THE INVENTION

The present invention relates to providing a service over a network. In
5 particular, the present invention relates to a collaboration service for projects.

BACKGROUND OF THE INVENTION

Many projects require the collaboration of multiple parties. One example can
be seen in the printing industry. For example if a company wishes to market a fall
10 promotion, it is likely that multiple people will be involved in creating the fall
promotion, and once the promotion concept is created, an outside company, such as a
printing company, is often hired to produce advertisements, catalogs, and other
various deliverables. In many cases, the company might hire a creative agency to
manage the creation of the promotion. The creative agency in turn typically hires a
15 prepress agency or a printer to assist in the project. The prepress agency and the
printer may each hire additional vendors to provide them with materials or a small
portion of their job.

In another example, a financial institution may generate an internal document
defining a new product. This internal document may include information such as the
20 size, image, text, and how the resultant document should be folded. This information
can be included in a print job specification and communicated, via fax, courier, or
mail for example, to various printing companies to invite the printing companies to

bid for a particular job. The printing companies may then review the job specification and might reenter the specification in a different format on an internal document to estimate the cost of the requested job. The printing company may reenter the information due to differences in the buyer's system used to generate the original specification and the printer's system. For example, the buyer may request a particular typeface which might only apply to the buyer's computer system. One of the printers receiving the specification may need to convert the name of the typeface into an equivalent font used in his computer system. The printer may also need to reenter the specification to enter specific information required to generate an estimate that the buyer may have neglected to specify, such as a type of paper. Once each printer has determined an estimate, the estimate is sent back to the buyer. This estimate is commonly presented in an estimating document, the format of which is typically different for each printer. Likewise, the printer's format is typically different from the format of the original specification provided by the buyer. For example, the information, format, and terminology may be different from the original specification as well as from other estimates. It can be very difficult for the buyer to compare the various estimates. The buyer eventually picks a printer and often only contacts the selected printer while neglecting to contact the other printers who provided estimates. Once the printer begins work on the print job, there are typically numerous communications to ensure that files, specification, and all other materials such as art work and transparencies are received and updated to incorporate any changes. The printer will then typically produce a proof for the buyer and the buyer may have some changes which the printer will need to incorporate, typically in an iterative communication process.

There is typically a large amount of communication that is required between the buyer and the printer, particularly since it is often the case that the buyer has multiple people providing inputs and changes to the job specification during the print job, all of which needs to be coordinated and communicated to the printer. Likewise, 5 any issues on the printer's side need to be coordinated at the printing company and communicated to at least one person, if not multiple people, at the buyer's side. Each new version or change can generate multiple communications that are required for approval and execution.

If a third agency is involved, such as a creative agency, then these multiple 10 communications need to be coordinated between three parties. Likewise, each party, the buyer, the creative agency, and the printer, will typically have their own version of the print job. Each party must be careful to ensure that their version is the latest version and that version has been communicated to all the other parties involved to ensure consistency of versions. Examples of changes to the job specification include 15 moving an image, changing the fold of the paper, changing font sizes, and changing the schedule for delivery of the finished product.

In all this confusion, it is typically very difficult for the buyer to maintain company records of projects and costs and time projections. These projects can also be a very people intensive process since each member of the team needs to be reached 20 when a telephone call comes in with regard to approval for changes to the job specification. It can also be difficult for one team member to determine if every individual involved in the print job has agreed to or approved a particular change.

What is needed is a system and method for coordinating and managing such a project. The present invention addresses such a need.

SUMMARY OF THE INVENTION

According to an embodiment of the present invention, projects involving
5 multiple parties are collaborated through a service accessed via a network such as the Internet. For example, a print job can be coordinated by having a buyer, a vendor, sub vendors, and clients of the buyer access a server through the Internet wherein all individuals involved with the print job works with a single updated specification that is uniform for all individuals involved. Additionally, according to an embodiment of
10 the present invention, the coordination of the project includes managing communications involved with the project.

A method according to an embodiment of the present invention for managing a print project is presented. The method comprises storing a print specification, wherein the specification is associated with a URL on the Internet. The method also
15 includes coordinating communications between a buyer and a printer regarding the print project, wherein the buyer and the printer both view the print specification through the URL on the Internet. A party is invited to join the print project; and a role is associated with the party, wherein the role is associated with an access right to information.

20 Another method for managing a print project according to an embodiment of the present invention is presented. The method comprises storing a print specification, wherein the specification is associated with a URL on the Internet;

inviting a party to join the print project; and associating a role with the party, wherein the role is associated with an access right to information.

A system according to an embodiment of the present invention for managing a print project is also presented. The system comprises a processor configured to store
5 a print specification, wherein the specification is associated with a URL on the Internet. The processor is also configured to coordinate communications between a buyer and a printer regarding the print project, wherein the buyer and the printer both view the print specification through the URL on the Internet. A party is invited to join the print project; and a role is associated with the party, wherein the role is
10 associated with an access right to information. A memory coupled with the processor is also included. The memory is configured to provide the processor with instructions.

A method for managing a project according to an embodiment of the present invention is also presented. The method comprises storing a project description,
15 wherein the description is associated with a URL on the Internet; inviting a party to join the project; and associating a role with the party, wherein the role is associated with an access right to information.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will be readily understood by the following detailed
20 description in conjunction with the accompanying drawings, wherein like reference numerals designate like structural elements, and in which:

FIG. 1 is block diagram of a computer system suitable for use with an embodiment of the present invention.

FIG. 2 is a block diagram of an embodiment of the present invention for managing a project.

5 FIG. 3 is another block diagram illustrating an aspect of a method according to an embodiment of the present invention for managing a project.

FIG. 4 is a flow diagram of a method according to an embodiment of the present invention for managing a project, such as a print project.

10 FIG. 5 is an example of a graphical user interface of a method according to an embodiment of the present invention for managing a project.

FIG. 6 is another example of a graphical user interface according to an embodiment of the present invention for managing a plurality of projects.

FIG. 7 is an example of a graphical user interface according to an embodiment of the present invention for tracking events associated with a project.

15 FIGs. 8A – 8B are flow diagrams of a method according to an embodiment of the present invention for selecting a vendor for a project.

FIGs. 9A – 9B show an example of a graphical user interface according to an embodiment of the present invention for a specification form that can be used by a buyer to describe the project.

FIG. 10 is an example of a graphical user interface according to an embodiment of the present invention for viewing vendor estimates submitted for a project.

FIG. 11 is a flow diagram of a method according to an embodiment of the present invention for managing a project and providing various access rights to selected individuals.

FIG. 12 is a flow diagram of a method according to an embodiment of the present invention for inviting potential members of a team associated with a particular project.

FIG. 13 is an example of a graphical user interface according to an embodiment of the present invention that can be used to select team members for invitation onto the team.

FIG. 14 is an example of a graphical user interface according to an embodiment of the present invention for viewing team members associated with a project.

FIG. 15 is an example of team member roles and rules associated with those roles according to an embodiment of the present invention.

FIG. 16 is a flow diagram of a method according to an embodiment of the present invention for notifying a team member about an event.

FIG. 17 is a flow diagram of a method according to an embodiment of the present invention for managing a project using publishing restrictions.

FIG. 18 is an example of a graphical user interface according to an embodiment of the present invention for use in providing a publishing restriction.

FIGs. 19A-19B is a flow diagram of a method according to an embodiment of the present invention for providing a publishing restriction.

5 FIG. 20 is a flow diagram of a method according to an embodiment of the present invention for managing a project using company hiding.

FIG. 21 shows an example of company hiding.

FIG. 22 is a flow diagram of a method of managing a project using company hiding according to a second embodiment of the present invention.

10 FIG. 23 is an illustration of a method according to an embodiment of the present invention for providing company hiding.

FIGs. 24A – 24C are block diagrams illustrating an example of company hiding.

DESCRIPTION OF SPECIFIC EMBODIMENTS

15 The following description is presented to enable one of ordinary skill in the art to make and to use the invention and is provided in the context of a patent application and its requirements. Various modifications to the preferred embodiments will be readily apparent to those skilled in the art and the generic principles herein may be
20 applied to other embodiments. Thus, the present invention is not intended to be

limited to the embodiment shown but is to be accorded the widest scope consistent with the principles and features described herein.

Although the following description uses the example of print projects to illustrate the invention, the present invention is not intended to be limited to print projects. The present invention may be applied to any project that could benefit from management, such as the facilitation of negotiation, collaboration, and awarding of services. An example of such projects include media agency projects such as television advertisements, radio advertisements, the purchasing of radio air time, the purchasing of radio or television production time, purchasing related to website production projects, purchasing related to interactive product projects, legal agreement projects, real estate collaboration projects, and construction projects.

FIG. 1 is a block diagram of a general purpose computer system 100 suitable for carrying out the processing in accordance with one embodiment of the present invention. FIG. 1 illustrates one embodiment of a general purpose computer system. Other computer system architectures and configurations can be used for carrying out the processing of the present invention. Computer system 100, made up of various subsystems described below, includes at least one microprocessor subsystem (also referred to as a central processing unit, or CPU) 102. That is, CPU 102 can be implemented by a single-chip processor or by multiple processors. CPU 102 is a general purpose digital processor which controls the operation of the computer system 100. Using instructions retrieved from memory 110, the CPU 102 controls the reception and manipulation of input data, and the output and display of data on output devices.

CPU 102 is coupled bi-directionally with memory 110 which can include a first primary storage, typically a random access memory (RAM), and a second primary storage area, typically a read-only memory (ROM). As is well known in the art, primary storage can be used as a general storage area and as scratch-pad memory, and can also be used to store input data and processed data. It can also store programming instructions and data, in the form of data objects and text objects, in addition to other data and instructions for processes operating on CPU 102. Also as well known in the art, primary storage typically includes basic operating instructions, program code, data and objects used by the CPU 102 to perform its functions.

Primary storage devices 110 may include any suitable computer-readable storage media, described below, depending on whether, for example, data access needs to be bi-directional or uni-directional. CPU 102 can also directly and very rapidly retrieve and store frequently needed data in a cache memory (not shown).

A removable mass storage device 112 provides additional data storage capacity for the computer system 100, and is coupled either bi-directionally or uni-directionally to CPU 102. For example, a specific removable mass storage device commonly known as a CD-ROM typically passes data uni-directionally to the CPU 102, whereas a floppy disk can pass data bi-directionally to the CPU 102. Storage 112 may also include computer-readable media such as magnetic tape, flash memory, signals embodied on a carrier wave, PC-CARDS, portable mass storage devices, holographic storage devices, and other storage devices. A fixed mass storage 120 can also provide additional data storage capacity. The most common example of mass storage 120 is a hard disk drive. Mass storage 112, 120 generally store additional programming instructions, data, and the like that typically are not in active use by the

CPU 102. It will be appreciated that the information retained within mass storage 112, 120 may be incorporated, if needed, in standard fashion as part of primary storage 110 (e.g. RAM) as virtual memory.

In addition to providing CPU 102 access to storage subsystems, bus 114 can
5 be used to provide access other subsystems and devices as well. In the described embodiment, these can include a display monitor 118, a network interface 116, a keyboard 104, and a pointing device 106, as well as an auxiliary input/output device interface, a sound card, speakers, and other subsystems as needed. The pointing device 106 may be a mouse, stylus, track ball, or tablet, and is useful for interacting
10 with a graphical user interface.

The network interface 116 allows CPU 102 to be coupled to another computer, computer network, or telecommunications network using a network connection as shown. Through the network interface 116, it is contemplated that the CPU 102 might receive information, *e.g.*, data objects or program instructions, from another
15 network, or might output information to another network in the course of performing the above-described method steps. Information, often represented as a sequence of instructions to be executed on a CPU, may be received from and outputted to another network, for example, in the form of a computer data signal embodied in a carrier wave. An interface card or similar device and appropriate software implemented by
20 CPU 102 can be used to connect the computer system 100 to an external network and transfer data according to standard protocols. That is, method embodiments of the present invention may execute solely upon CPU 102, or may be performed across a network such as the Internet, intranet networks, or local area networks, in conjunction with a remote CPU that shares a portion of the processing. Additional mass storage

devices (not shown) may also be connected to CPU 102 through network interface 116.

An auxiliary I/O device interface (not shown) can be used in conjunction with computer system 100. The auxiliary I/O device interface can include general and customized interfaces that allow the CPU 102 to send and, more typically, receive data from other devices such as microphones, touch-sensitive displays, transducer card readers, tape readers, voice or handwriting recognizers, biometrics readers, cameras, portable mass storage devices, and other computers.

In addition, embodiments of the present invention further relate to computer storage products with a computer readable medium that contain program code for performing various computer-implemented operations. The computer-readable medium is any data storage device that can store data which can thereafter be read by a computer system. The media and program code may be those specially designed and constructed for the purposes of the present invention, or they may be of the kind well known to those of ordinary skill in the computer software arts. Examples of computer-readable media include, but are not limited to, all the media mentioned above: magnetic media such as hard disks, floppy disks, and magnetic tape; optical media such as CD-ROM disks; magneto-optical media such as floptical disks; and specially configured hardware devices such as application-specific integrated circuits (ASICs), programmable logic devices (PLDs), and ROM and RAM devices. The computer-readable medium can also be distributed as a data signal embodied in a carrier wave over a network of coupled computer systems so that the computer-readable code is stored and executed in a distributed fashion. Examples of program

code include both machine code, as produced, for example, by a compiler, or files containing higher level code that may be executed using an interpreter.

The computer system shown in FIG. 1 is but an example of a computer system suitable for use with the invention. Other computer systems suitable for use with the invention may include additional or fewer subsystems. In addition, bus 114 is illustrative of any interconnection scheme serving to link the subsystems. Other computer architectures having different configurations of subsystems may also be utilized.

FIG. 2 is a block diagram of a system according to an embodiment of the present invention for managing a project, such as a print project. In this example, information related to the project are stored and viewed on a server accessed via the Internet, such as through a uniform resource locator (URL). Information related to the project is herein referred to as the live job 200. The live job 200 can be accessed by parties invited to work on the project via a network such as the Internet. In the example of a print project, a printer 202, a buyer 204, a pre-press agency 206 and a mailing agency 208 can all access the information on the live job 200 and communicate with other parties on the job team via the live job 200.

The live job 200 can be stored on a database, such as a database produced by Oracle. Numerous live jobs 200, associated with numerous projects, can be stored on such a database on a server accessible via the Internet.

FIG. 3 is a block diagram showing examples of information that can be stored, viewed, and edited in the live job 200. Examples of such information include a specification describing the project, any files associated with the project, including

images and graphic files, messages, faxes, the project status, a project team setup, and estimates associated with the project.

FIG. 4 is a flow diagram of a method according to an embodiment of the present invention for managing a project, such as a print project. A buyer creates a description of at least a portion of the project (step 400). For example, the buyer creates a print specification for a print project. The specification is stored, wherein the specification is associated with a URL on the Internet (step 402). Communications between parties related to the project, such as the buyer and a printer, regarding the project is coordinated through the live job 200 (shown in FIG. 3) (step 404). The specification is viewed through the URL on the Internet (step 406). The specification can also be changed, wherein the changed specification is accessed through the URL (step 408).

FIG. 5 is an example of a graphical user interface according to an embodiment of the present invention for managing a project. In this example, a qualified user, such as a buyer of a particular project, can view information regarding the project. In this example, this project is a brochure. The status of the project can be viewed. In this example, an order for the project has been accepted. Messages can also be viewed regarding the project. The user can also view most recent events as well as team member information related to this project.

FIG. 6 is an example of another graphical user interface according to an embodiment of the present invention for managing a project. In this example, a qualified user, such as a buyer, can view all projects associated with that buyer.

Examples of information which may be viewed include the job number, a job name, the user's role in the project, a status of the project, a client associated with the project, a due date of the project, and a sales representative. Selected information, such as the status of certain projects, may be changed by a user, depending on the access privileges of the user. Further details of access rights related to a particular user is later discussed. For example, access privileges are discussed in conjunction with FIGs. 11-16.

FIG. 7 is an example of a graphical user interface for viewing tracking information according to an embodiment of the present invention. In this example, a user with appropriate access rights may view the current status of the project. Examples of status information include new project, creation of an order, acceptance of an order, completion and shipment of a project, and delivery of a project.

The user may also view the project event tracking. Examples of information which can be viewed through the event tracking category include date, time, event, person, and comments. Examples of events that may be tracked include acceptance of an order associated with the project, creation of an order, the submission of an estimate, and the requesting of an estimate. These events, such as the submitted estimates, may be stored for the buyer's records. Accordingly, the buyer may have a complete history of the project including the dates of events, costs and updated costs associated with changes, and the various parties that were involved with the project.

FIGs. 8A-8B are flow diagrams of a method according to an embodiment of the present invention for obtaining an estimate for a project, such as a print project. A

user, such as a buyer, contacts a server via a network, such as the Internet (step 600). The buyer is presented with a preformatted specification form (step 602). An example of the preformatted specification form is shown in FIGs. 9A-9B. The buyer creates a specification by filling out the specification form (step 604). The resulting project specification is stored on the server, and can be accessed through a URL. The buyer is then presented with a list of vendors such as printers (step 606). The buyer may view further information regarding these vendors. The more detailed information may be stored in the same server or the buyer may be directed to a vendor website via a hyperlink, for example. The buyer selects printers from whom the buyer is interested in obtaining estimates (step 608). The selected printers are notified, such as via email, and requested to contact the server under a specific URL to provide an estimate for the project specification associated with the URL (step 610). These estimates are received from the selected printers and stored on the server (step 612). The buyer is then presented with the estimates from the selected printers (step 614). For example, the buyer may contact the server via the Internet and view the received estimates.

An estimate is then selected (step 616). The printers who submitted estimates but were not selected for the project are automatically notified, such as through email (step 618). The printer who submitted the selected estimate is also notified (step 620).

FIGs. 9A-9B show an example of a preformatted specification form that can be filled out by a user, such as the buyer of a print project. Examples of information that may be included in the specification, such as a print specification, includes category of the printed piece (such as a brochure), a job number, a job name, a job

description, a client company, a due date of the project, a reference identification, and various comments related to these issues. Size information of the print project may also be included, such as a flat size, a finish size, page count, cover style, and comments related to the size. Various quantities may be specified, and stocks and inks may also be specified. For example, the stock name may be identified, a type of stock, the finish, the weight, the coding, the color, and comments related to the stock. The inks may be specified by specifying various colors and processes, such as black, docutech, PMS colors, metallic ink, various coatings, wax-free inks, a double hit, ink coverage, bleeds, and comments for the inks.

FIG. 10 is an example of another graphical user interface showing estimates according to an embodiment of the present invention. In this example, the current specification for the project may be viewed, as well as estimate information associated with that specification. Examples of information that can be included in a request for an estimate include the status of the estimating process, the date and time the bids are due, and the due date of the project. Additional details may include the identification of the vendors to whom the request for estimates were (or are to be) sent.

Information related to the actual estimates from the vendors may also be viewed. Examples of information related to the estimates include the estimate number, the name of the company providing the estimate, the author of the estimate, the date and time the estimate was submitted, the expiration date and time of the estimate, and various estimates for certain variables, such as estimates for different numbers of copies for a print project.

FIG. 11 is a flow diagram of a method according to an embodiment of the present invention for managing a project and providing various access rights to selected individuals. A specification is stored, wherein the specification is associated with a URL on the Internet (step 800). The specification is viewed through the URL
5 on the Internet (step 802). Communications between the buyer and the printer regarding the print project are coordinated (step 804). A party is invited to join the print project (step 806). A role is associated with the invited party, wherein the role is associated with an access right to information (step 808).

FIG. 12 is a flow diagram of an example for inviting a party to join a project,
10 such as in step 806 of FIG. 11, according to an embodiment of the present invention. A creator of a job invites a potential member of the job team (step 900). It is then determined whether the invitee can invite others onto the job team (step 902). This determination is based on the selection of a role of the invitee (step 904). Each invitee is assigned a role associated with the particular project team. Each role has
15 associated with it a set of rules applying to the assigned role. The rules associated with roles are later discussed with conjunction with FIG. 15. Communication, such as email, is automatically sent to the invitee notifying him of the invitation and contact information related to the project (step 906).

FIG. 13 is an example of a graphical user interface for choosing invitees by a
20 user according to an embodiment of the present invention. In this example, the user, such as a buyer for a project, can select the people the user wishes to invite by selecting the invitees from an address book. Once the invitees are selected, the

invitations can automatically be prepared. This address book can be stored on the server associated with the project, and accessed via the Internet.

FIG. 14 is an example of a graphical user interface showing a user information related to team members associated with a particular project, such as a print project.

- 5 In this example, information related to the team members include name, role, email address, phone number, company, date invited onto the team, date joined.

- FIG. 15 is an example of a set of roles and a set of rules associated with such roles for the example of a print project. These sets of rules may be used in conjunction with step 904 of FIG. 12. Examples of roles for a print project include
- 10 buyers, printers, designers, guests, clients, estimators, group members, and group managers. A buyer can be someone who wishes to obtain the services of a vendor. In this example, the printers are the vendors for the job. Designers, guests, and clients may also be asked to join a job team. The estimator role may be a temporary role used during the request and receipt of estimates until a vendor, such as a printer, is
- 15 selected. A group members may be regular users in a company account. Group managers may be company account administrators who can see all of the print jobs created by anyone in their company account (their group). A group manager may run reports across all of the jobs in their account, for example.

- Examples of actions that may be included among the privileges associated
- 20 with a particular role includes viewing the job description, inviting a person onto the job team, updating the job description, creating the project job, creating a request for estimate (RFE), viewing the request for estimate, creating an estimate, viewing the

estimate, creating an order, viewing an order, updating an order, accepting an order, accepting a pending order, inviting anybody onto the job team, inviting a printer onto the job team, inviting an estimator, creating a specification, updating a specification, deleting a specification, updating any specification, viewing any request for estimate, 5 viewing any estimate, viewing any order, submitting a change for an order, viewing a specification, and viewing any specification. Updating a job can include changing any information associated with the whole print job such as names, descriptions and comments. Updating an order can include changing information on an order such as the P.O. number associated with a payment. Updating a specification can include 10 changing the specification that describes the printing work that needs to be done such as changing a print job from two colors to four colors. Viewing a specification may be viewing the current specification, whereas viewing any specification may mean being able to view all versions of the specification.

An example of rules for buyers include the ability to perform all the actions 15 listed above except for accepting an order, inviting anybody, inviting a printer, and inviting an estimator. Estimators and printers are special roles that can be assigned by the system during the job's life cycle. For example, there is no need to invite someone as an "estimator" unless a request for estimates has been generated describing the job for which the estimate is requested. Therefore, estimators may be "invited" by 20 creating a request for estimate, which acts as a special kind of invitation. Likewise, a "printer" is job team member from a particular company account to whom the job has been awarded – i.e. to whom the order is sent. Printers may therefore be assigned automatically by the system when an order is created rather than being specifically

invited by the buyer. The buyer essentially "invites" a printer by selecting an estimate for a job.

Examples of rules for printers include being able to view a job, invite a person onto the job, create a job, view an order, update an order, accept an order, invite a
5 printer, and view the job specification. An example of rules for designers includes being able to view a job, create a job, view the specification of a job, and view any specification.

An example of rules for guests include viewing the job, creating a job, viewing a job specification, and viewing any specification. An example of rules for
10 clients include viewing a job, creating a job, viewing the job specification, and viewing any job specification. Examples of rules for clients include viewing the job, creating a job, viewing the job specification, and viewing any specification. Examples of rules for estimators include viewing a job, inviting a person on the job, creating a job, creating an estimate, creating a specification, updating a specification,
15 deleting a specification, and viewing a specification.

Examples of a rule for group members includes viewing a job. Examples of rules for group managers include viewing a job, inviting a person on to the job, creating a job, creating an order, and viewing a specification.

FIG. 16 is a flow diagram of a method for processing events for managing a
20 project according to an embodiment of the present invention. An event occurs (step 1000). For example, the event may be that the estimates for a print project have been

received. A job team member is then selected (step 1008). It is then determined whether the event is relevant for the selected team member's role (step 1010). For example, if the selected team member is the buyer, then the event of receiving the estimate would be relevant to him. However, if the selected team member is a guest, then the event of receiving an estimate would not be relevant since the guest does not have the privilege of viewing the estimates according to the example of FIG. 15.

If the event is not relevant for the selected team member's role, then the next team member is selected (step 1016), and it is determined whether this event is relevant for this newly selected member's role (step 1010). If the event is relevant for this member's role, then it is determined whether this team member wants notification of the event (step 1012). If the team member has indicated that he wants notification of events, then the notification is sent to the particular team member (step 1018).

It is then determined whether this team member is the last team member (step 1014). Additionally, if the team member does not want notification (step 1012), then it is also determined whether this team member is the last team member (step 1014). If this team member is the last team member, then the processing of the event ends. If, however, this team member is not the last team member, then the next team member is selected (step 1016) and the processing of the event continues as described above.

FIG. 17 is a flow diagram of a method according to an embodiment of the present invention for managing a project using publishing restrictions. A specification is stored, wherein the specification is associated with a URL on the

Internet (step 1100). A team associated with the print project is provided (step 1102). A message is posted, wherein the posted message includes a publishing restriction, wherein the publishing restriction limits the members of the team who may view this message (step 1104).

5 FIG. 18 is an example of a graphical user interface which allows publishing restrictions according to an embodiment of the present invention. In this example, the user may enter a message and indicate with whom the message should be shared. Examples of parties with whom the message can be shared include the entire job team, people from a specific company, people with a specific role, or a specific
10 individual. Additionally, the user can publish a message for his eyes only such that the message is not shared with anyone else other than the creator of the message.

FIGs. 19A-19B are flow diagrams of a method according to an embodiment of the present invention for managing a project using a publishing restriction. A team member creates a message (step 1200). It is then determined whether the team
15 member is a project job creator (step 1202). If the team member is a job creator, then it is determined whether this message is for the entire job team (step 1204). If the message is for the entire job team, then the message is posted and accessible to all members of the team (step 1214). If, however, the message is not for the entire job team (step 1204), then it is determined whether the message is only for a specific
20 company (step 1206). Also, if the team member is not a project job creator (step 1202), then it is also determined whether the message is only for a specific company (step 1206). If the message is only for a specific company, then the company is

specified (step 1208), and the message is posted to team members of the specified company (step 1210).

If the message is not for a specific company (step 1206), then it is determined whether the message is meant only for a specific role (step 1212). If the message is
5 only for a specific role, then the role is specified (step 1216), and the message is posted such that team members with the specified role may view the message (step 1218).

If, however, the message is not meant to be published only for a specific role (step 1212), then it is determined whether the message is only for a specific person
10 (step 1300). If the message is meant only for a specific person, then the person on the job team is specified (step 1302), and the message is posted to the specified person (step 1304).

If the message is not for a specific person (step 1300), then it is determined whether the message is meant only for the creator of the message (step 1306). If the
15 message is only meant for the creator of the message, then the message is limited to being viewed only by the creator of the message (step 1310). If, however, the message is not meant only for the creator of the message (step 1308), then the party to whom the message should be posted is identified (step 1306), such as a specific person on the team, a specific role on the team, a specific company associated with
20 the team, or the entire team.

FIG. 20 is a flow diagram of a method according to an embodiment of the present invention for managing a project using company hiding. Company hiding, as used herein, includes a situation wherein a first party is unable to view or participate in the communications between a second party and a third party even when all of
5 these parties are associated with the same overall project.

A specification is stored, wherein the specification is associated with a URL on the Internet (step 1400). Communications between the buyer and the printer regarding the project are coordinated (step 1402). The specification is viewed through the URL on the Internet (step 1404). A message is posted by a second party
10 wherein a first party does not have access to the message if the first party was not directly involved with an invitation associated with this second party (step 1406).

FIG. 21 shows an example of company hiding. In this example, a buyer 1500 invites a first client 1502 as well as a vendor 1504 into a job team for a particular project. The first client 1502 then invites a second client 1506 into the job team. The
15 vendor 1504 invites a sub vendor 1508 into the job team.

The second client 1506 can view and participate in communications between himself and the first client 1502 since both parties were directly involved in the invitation of one of the parties. In this case, the first client 1502 invited the second client 1506.

20 The first client 1502 can view and participate in communications between himself and the second client 1506, as well as communications between himself and

the buyer 1500 since the first client 1502 was directly involved with an invitation onto the job team of one of the communicating parties. The first client 1502 was directly involved with an invitation that brought the second client 1506 into the job team, and the buyer 1500 invited the first client 1502 into the job team.

5 The buyer 1500 can view communications between himself and his invitees, the first client 1502 and vendor 1504. Likewise, vendor 1504 can view communications between himself and his invitees, the sub vendor 1508. The vendor 1504 can also see communications between himself and the party who invited him, the buyer 1500. The sub vendor 1508 can view communications between himself and
10 the party who invited him, the vendor 1504.

FIG. 22 is a flow diagram of a method of managing a project using company hiding according to a second embodiment of the present invention. In this example, the company hiding is shown as various layers of associated jobs with teams associated with these various jobs.

15 According to this embodiment, a specification for a first print project is stored, wherein the specification is associated with a URL on the Internet (step 1600). The specification is viewed through the URL on the Internet (step 1602). Communications between a buyer and a printer regarding the first project is coordinated (step 1604). A message is then posted, wherein a party associated with a
20 second print project does not have access to the message, and wherein the second print project is associated with the first print project (step 1606).

FIG. 23 shows an example of various related print jobs and their associated teams, such as that described in step 1606 of FIG. 22. In the example shown in FIG. 23, a first print job 1700A is shown to include three members on its job team: party A 1702, party Q 1704, and party B 1706.

5 A second job 1700B is associated with the first job 1700A. An example of how the second job 1700B is related to the first job 1700A is if a vendor of the first job has contracted a sub vendor to produce a portion of the project. The interactions between the vendor and the sub vendor are included in the second job 1700B in this example. The second job 1700B is shown to include three parties: party Q1704', party
10 B1706', and party C1708.

A third job 1700C is shown to be associated with the second job 1700B. For example, a member of the second job team may have hired another a company to provide services for a piece of their project. The interactions between the member of the second job team and the newly hired company are included in the third job 1700C
15 in this example. The third job 1700C is shown to include three parties: party B1706", party C1708', and part D17010.

For example, the first job 1700A may be a print project with party Q1704 as the buyer for the first job 1700A. In this example, party Q1704 invites parties A1702 and B1706. Assume that party B1706 is a printer and party A1702 is a client. For
20 example, the buyer 1704 of the first job 1700A may be a creative agency working with the client A1702.

Because the party Q1704 of the first job 1700A invited both parties A1702 and B1706, party Q1704 can participate in communications between himself and parties A1702 and B1706. Party A1702 can be involved with communications between himself and party Q1704 since both these parties were directly involved with the invitation of one of these parties (party A1702). However, party A1702 is not privy to viewing or being involved with communications between parties Q1704 and B1706 since party A1702 was not directly involved in the invitation of one of those two parties (Q1704 and B1706). Likewise, party B1706 has access to communications between himself and party Q1704 since party Q1704 invited party B1706 into the first job 1700A. However, party B1706 does not have the privilege of viewing or participating in communications between parties A1702 and Q1704 since party B1706 was not directly involved in the invitation of one of those two parties. Accordingly, only the creator of the job, party Q1704 in this case, can publish a message to the entire job team as previously discussed in conjunction with FIGs. 17-19B.

The printer (party B1706) then hires a sub vendor C1708 to provide a portion of what is required in the first job 1700A, resulting in the creation of the second job 1700B. Accordingly, the printer B1706 of the first job 1700A becomes a buyer B1706' for the second job 1700B. The sub vendor that party B1706' has hired (party C1708) is invited to join the job team for the second job 1700B. Additionally, the buyer B1706' also invites the creative agency Q1704 (buyer of the first job 1700A) into the second job 1700B as a client Q1704'.

In the second job 1700B, party Q1704' can participate in communications between himself and party B1706' but is not able to view or participate in

communications between parties B1706' and C1708. Likewise, party C1708 can participate in communications between himself and party B1706', but is unable to view or participate in communications between parties B1706' and Q1704'.

Note that the buyer Q1704 of the first job 1700A can publish to the entire
5 team of the first job 1700A, allowing all members of the first job 1700A to view this message. However, this message will not be viewed by members of the second job 1700B even though the second job 1700B is related to the first job 1700A.
Accordingly, a first company working on a project which was originally commissioned by a second company may be hidden from the second company. For
10 example, a large software company may hire an ad agency to execute a promotional concept. The agency may hire a printer to print brochures and labels and ads for this promotional project. The printer can be hidden from the software company such that only the ad agency deals with the printer. As far as the software company is concerned, the ad agency appears to be managing all aspects of the promotional
15 project and can be presented with a single price and time estimate that encompasses all aspects of the project. Likewise, the printer that was selected to work with the ad agency on the promotional project may choose to hire a sub vendor, such as a smaller printing company to provide materials for the promotional project, such as the printing of envelopes and inserts. In that example, the ad agency does not need to be
20 aware of the sub vendor. Accordingly, communications between the printer and the sub vendor are hidden from the ad agency, thus providing company hiding of the sub vendor from the ad agency.

Each team member of a job, such as the second job 1700B, may create another job associated with the original job. For example, the sub vendor C1708 of the second job 1700B may create a third job 1700C and become the buyer C1708' of the third job 1700C. The buyer C1708' of the third job 1700C may invite a second sub
5 vendor D1710 into the third job 1700C. Buyer C1708' may also choose to invite the party (B1706') who originally invited him onto the second job 1700B as client B1706" for the third job 1700C.

As in the other two jobs, 1700A and 1700B, party B1706" can view and participate with communications between himself and the party who invited him
10 (C1708') but is then unable to view or participate with communications between party C1708' and party D1710. Likewise, party D1710 can participate in communications between himself and party C1708' (who invited him) but not view or participate in communications between parties C1708' and party B1706". Party C1708', as the party who invited both parties B1706" and D1710, can view and participate in
15 communications with both parties.

The first party who originally invited a second party in a previous related job can automatically be included in the second job that was created by the second party. For example, party Q1704' may be automatically included as a client for the second job 1700B. Alternatively, the creator of the new job (party B1706') can actively select
20 or chose not to select every party invited to the new job. For example, party B1706', as buyer of the second job 1700B, may actively select party Q1704 of the first job 1700A to be invited into the second job 1700B as client Q1704'.

FIGs. 24A-24C show examples of company hiding. In this example, a client 1800 hires an advertising agency 1802 to execute a promotional project. The ad agency manages magazine advertisements, websites, direct mail projects, and TV spots for the promotional project. In accomplishing this task, the ad agency 1802 contracts to work with a prepress agency 1804 and a printer 1806.

In FIG. 24B, the ad agency 1802 has hired the prepress agency 1804 to work on the magazine ad and the website and the printer 1806 to work on the direct mail project. In this example, the ad agency 1802 will have a first job coordinated through a URL with the prepress agency 1804 and a second job coordinated through another URL with the printer 1806. In the first job, the job team would include the client 1800, the ad agency 1802, and the prepress agency 1804. In the second job, the team would include the client 1800, the ad agency 1802 and the printer 1806. The client 1800 communicates with the ad agency 1802, but is unaware of the existence of the prepress 1804 and the printer 1806. Both the prepress agency 1804 and the printer 1806 are hidden from the client 1800. The client does not know, nor needs to know the existence of the prepress agency 1804 and the printer 1806 in this example, since the ad agency 1802 manages all communications with these companies. Accordingly, the prepress agency 1804 and the printer 1806 are companies that are hidden from the client.

In FIG. 24C, the prepress agency 1804 has hired a third printer 1810 to provide an insert for one of the magazine ads. Additionally, the printer 1806 has hired a second printer 1808 to provide envelopes and a poster for the direct mail project. In this example, the existence of the second printer 1808 and the third printer

1810 are hidden from the ad agency 1802 such that the ad agency 1802 only needs to deal with the prepress agency 1804 and the printer 1806. Additionally, the client 1808 is still only aware of the ad agency 1802 and is unaware of the prepress agency 1804, the printer 1806, the second printer 1808, and the third printer 1810.

5 Accordingly, these companies are hidden from the client 1800.

A method and system for managing a project has been disclosed. Software written according to the present invention may be stored in some form of computer-readable medium, such as memory or CD-ROM, or transmitted over a network, and executed by a processor.

10 Although the present invention has been described in accordance with the embodiment shown, one of ordinary skill in the art will readily recognize that there could be variations to the embodiment and these variations would be within the spirit and scope of the present invention. Accordingly, many modifications may be made by one of ordinary skill in the art without departing from the spirit and scope of the
15 appended claims.

CLAIMS

1. A method for managing a print project comprising:
storing a print specification, wherein the specification is associated with a
5 URL on the Internet;
coordinating communications between a buyer and a printer regarding the
print project, wherein the buyer and the printer both view the print specification
through the URL on the Internet;
inviting a party to join the print project; and
10 associating a role with the party, wherein the role is associated with an access
right to information.

2. The method of claim 1, further comprising automatically sending a
notification to the party if it is determined that the notification is relevant to the party's
15 role.

3. The method of claim 1, further comprising changing the specification, wherein
the changed specification is accessed through the URL.

20 4. The method of claim 1, wherein the access right limits access to information.

5. The method of claim 1, wherein the access right of a first role precludes
editing rights.

25 6. The method of claim 1, wherein the printer may not view a second printer's
estimate.

7. The method of claim 1, wherein the access right of a second role includes
viewing rights but precludes editing rights.
30

8. The method of claim 1, wherein the access right of a third role includes both
viewing rights and editing rights.

9. The method of claim 1, wherein a file may be associated with the specification.

10. The method of claim 1, wherein a message may be posted such that the message is accessible through the Internet.

11. The method of claim 1, wherein a status of the print project may be viewed through the Internet.

12. The method of claim 1, further comprising posting a message.

13. The method of claim 12, wherein the message is posted to a team associated with the print project.

14. The method of claim 12, wherein the message is posted to people associated with a company.

15. The method of claim 12, wherein the message is posted to a team member with a second role.

16. The method of claim 12, wherein the message is posted to a person.

17. The method of claim 12, wherein the message can be viewed only by a creator of the message.

18. The method of claim 1, further comprising a second print project associated with the print project, wherein a member of a team associated with the second print project does not have access to a message posted on the print project.

19. The method of claim 1, wherein a second party associated with the print project does not have access to a message posted by a third party who was not directly involved with an invitation associated with the second party.

20. A method for managing a print project comprising:
storing a print specification, wherein the specification is associated with a
URL on the Internet;
inviting a party to join the print project; and
5 associating a role with the party, wherein the role is associated with an access
right to information.

21. A system for managing a print project comprising:
a processor configured to store a print specification, wherein the specification
10 is associated with a URL on the Internet; the processor also being configured to
coordinate communications between a buyer and a printer regarding the print project,
wherein the buyer and the printer both view the print specification through the URL
on the Internet; to invite a party to join the print project; and to associate a role with
the party, wherein the role is associated with an access right to information; and
15 a memory coupled with the processor, the memory being configured to
provide the processor with instructions.

22. A computer program product for managing a print project comprising:
20 computer code storing a print specification, wherein the specification is
associated with a URL on the Internet;
computer code coordinating communications between a buyer and a printer
regarding the print project, wherein the buyer and the printer both view the print
specification through the URL on the Internet;
25 computer code inviting a party to join the print project;
computer code associating a role with the party, wherein the role is associated
with an access right to information; and
a computer readable medium that stores the computer codes.

30 23. The computer program product of claim 22, wherein the computer readable
medium is selected from the group consisting of CD-ROM, floppy disk, tape, flash
memory, system memory, hard drive, and data signal embodied in a carrier wave.

24. A method for managing a project comprising:
- storing a project description, wherein the description is associated with a URL on the Internet;
 - inviting a party to join the project; and
 - 5 associating a role with the party, wherein the role is associated with an access right to information.

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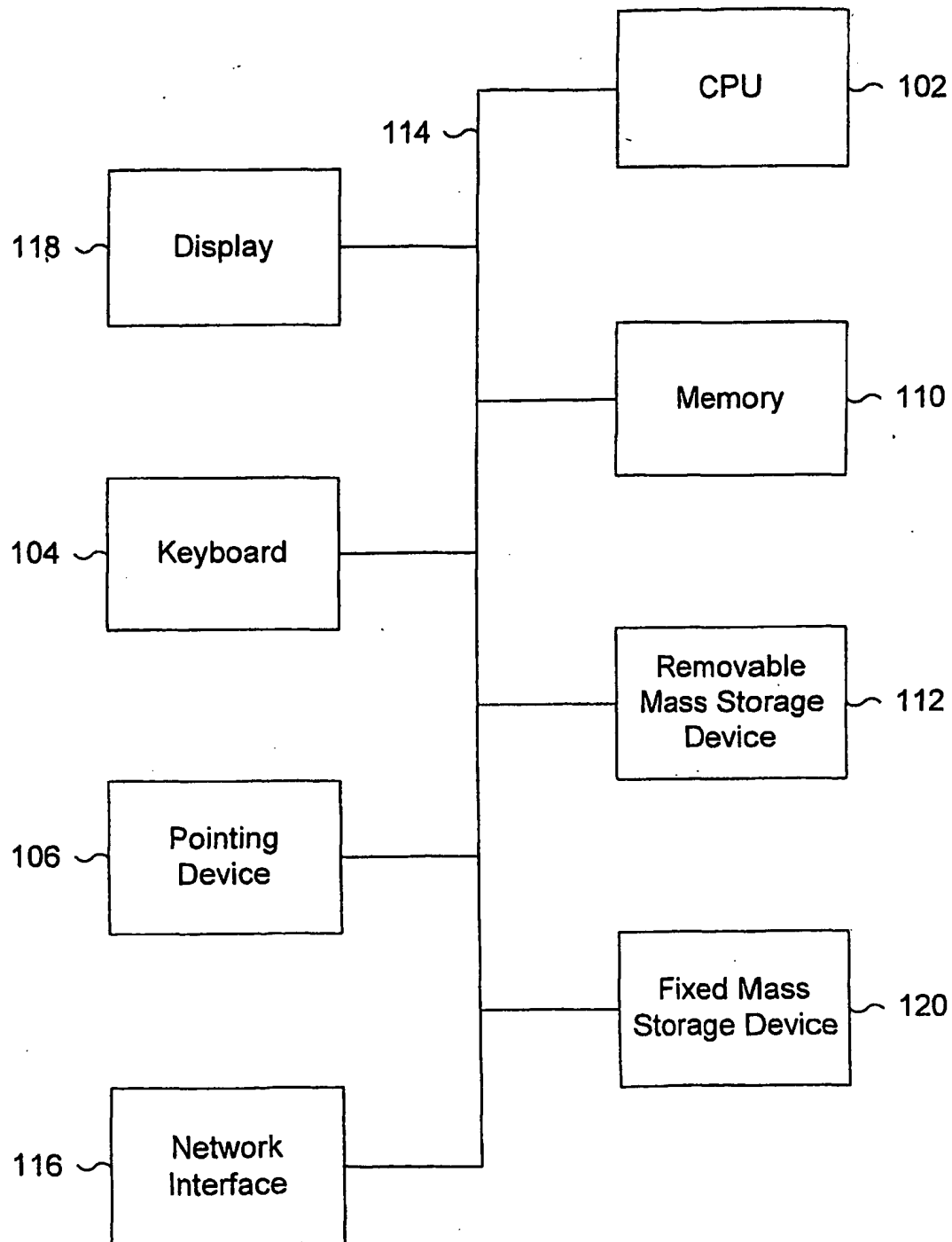


Figure 1

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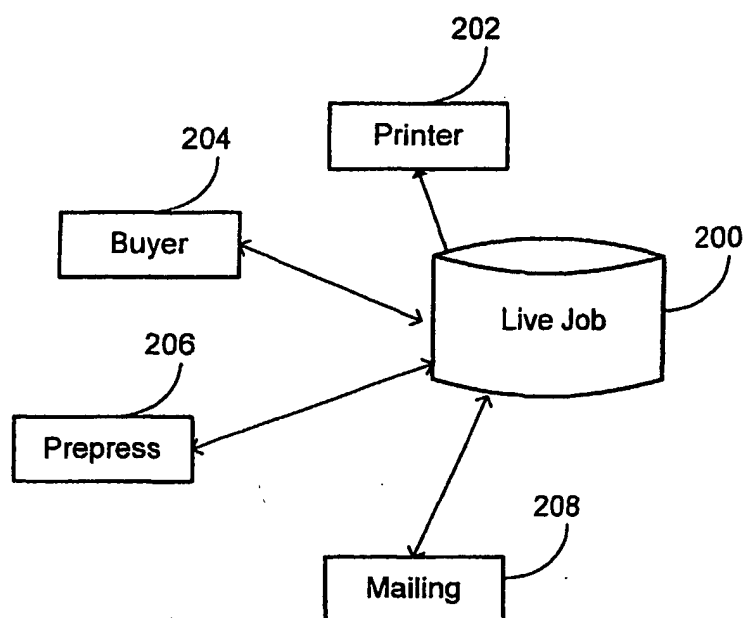


FIG 2

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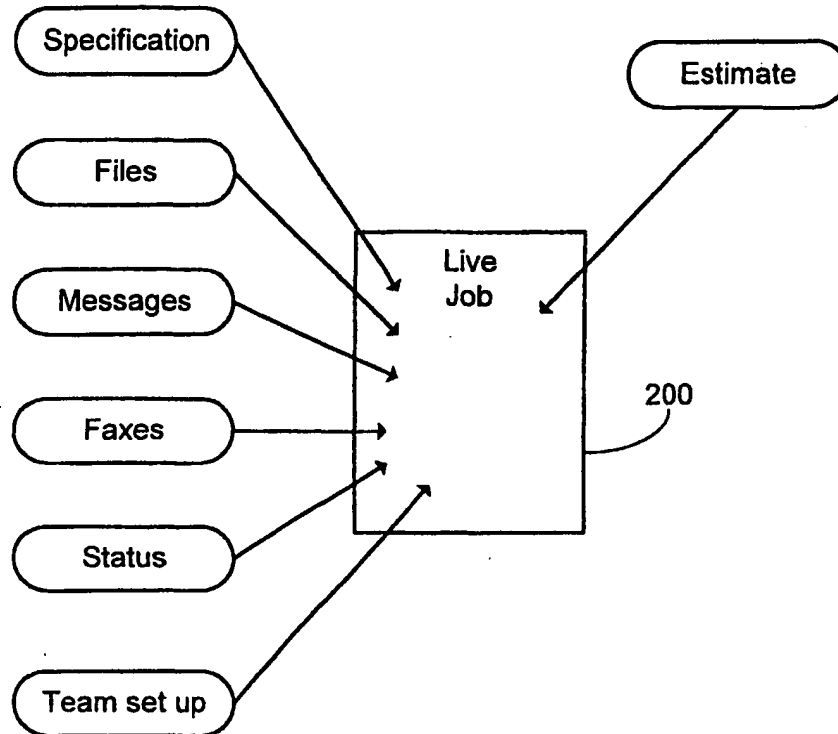


FIG 3

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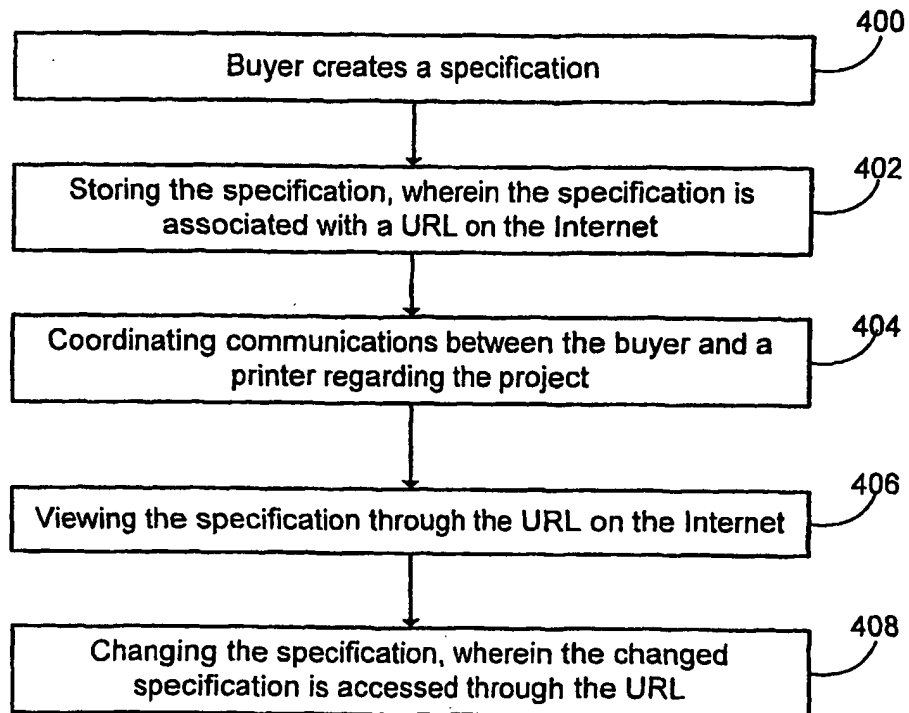


FIGURE 4

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| | | HOME HELP CUSTOMER SERVICE FEEDBACK LOGOUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---------------------------------------|---|------|-------|--------|----------|--------|----------|----------------|----------------------|--|---------|---------|---------------|-----------------------|---|---------|---------|--------------------|----------------------|---|---------|---------|--------------------|-----------------------|---|---------|---------|--------------------|-------------------|---|
| Welcome, Shannon Powell | | <input style="width: 80%;" type="text"/> | <input type="button" value="Search"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MY DESK / JOBS / SEARCH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open Jobs New Jobs Estimating Ordered Shipping Delivered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Job Home Messages Specs Estimates Tracking Order Shipments Files Members Post Message Enter Event Add New Contact | <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> ▼ About This Job </div> <p> Job Type: Brochure Noosh ID: 726 Job Number: 900 Client Company: Marketing </p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> ▼ Current Status: Order Accepted </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> <p style="text-align: right; margin-right: 50px;">Order Accepted</p> <p>Updated 12:14 PM on Thursday, July 1st 1999 by <u>Doug Anderson</u> of <u>House of Printing</u>.</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> ▼ Most Recent Messages </div> <p>There are no new messages. Post a New Message</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> ▼ Most Recent Events </div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Event</th> <th>Person</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>7/1/99</td> <td>12:14 PM</td> <td>Order Accepted</td> <td><u>Doug Anderson</u></td> <td>Order Accepted by Doug Anderson for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>1:01 PM</td> <td>Order Created</td> <td><u>Shannon Powell</u></td> <td>Order Accepted by Shannon Powell for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>7:14 AM</td> <td>Estimate Submitted</td> <td><u>Doug Anderson</u></td> <td>Quotes Received for RFE #545 for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>6:38 AM</td> <td>Estimate Submitted</td> <td><u>John Hoffheins</u></td> <td>Quotes Received for RFE #545 for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>6:05 AM</td> <td>Estimate Submitted</td> <td><u>Tom Vargas</u></td> <td>Quotes Received for RFE #545 for Job New Credit Line brochure</td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> ▼ Team Members for Job "New Credit Line brochure" </div> <p>Logged In: <u>Shannon Powell</u> ()</p> | | | Date | Time | Event | Person | Comments | 7/1/99 | 12:14 PM | Order Accepted | <u>Doug Anderson</u> | Order Accepted by Doug Anderson for Job New Credit Line brochure | 6/16/99 | 1:01 PM | Order Created | <u>Shannon Powell</u> | Order Accepted by Shannon Powell for Job New Credit Line brochure | 6/16/99 | 7:14 AM | Estimate Submitted | <u>Doug Anderson</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | 6/16/99 | 6:38 AM | Estimate Submitted | <u>John Hoffheins</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | 6/16/99 | 6:05 AM | Estimate Submitted | <u>Tom Vargas</u> | Quotes Received for RFE #545 for Job New Credit Line brochure |
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| 6/16/99 | 7:14 AM | Estimate Submitted | <u>Doug Anderson</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/16/99 | 6:38 AM | Estimate Submitted | <u>John Hoffheins</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/16/99 | 6:05 AM | Estimate Submitted | <u>Tom Vargas</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Figure 5

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NOOSH

Welcome, Shannon Powell!

HOME | HELP | CUSTOMER SERVICE | FEEDBACK | LOGOUT

MY DESK / JOBS / SEARCH

Search

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered

Jobs

Here you can view and manage your Noosh print jobs

Shannon Powell
NationsCorp
New Job

▼ All Open Jobs

| Noosh # | Job Name | Your role | Status | Client | Due Date | Sales Rep. |
|---------|---------------------------------|-----------|--|----------------------|----------|----------------|
| 724 | New Account Statement Insert | Buyer | <input type="checkbox"/> Order Accepted | New Business | 6/30/99 | Rich Brown |
| 725 | Employee Reference guide | Buyer | <input type="checkbox"/> Completed and Shipped ▼ | Human Resources | 7/12/99 | Doug Anderson |
| 726 | New Credit Line brochure | Buyer | <input type="checkbox"/> Order Accepted | Marketing | 6/28/99 | Rich Brown |
| 727 | Gold member presentation folder | Buyer | <input type="checkbox"/> New | Business Development | 8/2/99 | |
| 728 | Senior Line of Credit Promo | Buyer | <input type="checkbox"/> Completed and Shipped ▼ | Business Development | 7/21/99 | John Pappas |
| 731 | New Secured Loan Program | Buyer | <input type="checkbox"/> Completed and Shipped ▼ | Marketing | 8/5/99 | John Hoffheins |
| 732 | 401K Reminder | Buyer | <input type="checkbox"/> New | New Business | 8/5/99 | |
| 733 | On line banking brochure | Buyer | <input type="checkbox"/> Order Accepted | New Business | 8/10/99 | Doug Anderson |
| 734 | Executive class letterhead | Buyer | <input type="checkbox"/> Order Accepted | New Business | 8/6/99 | Doug Anderson |

Figure 6

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| | | HOME HELP CUSTOMER SERVICE FEEDBACK LOGOUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|--|---------------------------------------|---|------|-------|--------|----------|--------|----------|----------------|----------------------|--|---------|---------|---------------|-----------------------|---|---------|---------|--------------------|----------------------|---|---------|---------|--------------------|-----------------------|---|---------|---------|--------------------|-------------------|---|---------|---------|--------------------|--------------------|---|---------|---------|--------------------|-----------------------|--|
| Welcome, Shannon Powell | | <input style="width: 80px;" type="text"/> | <input type="button" value="Search"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MY DESK / JOBS / SEARCH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open Jobs New Jobs Estimating Ordered Shipping Delivered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> New Credit Line brochure </div> <div style="display: flex;"> <div style="width: 20%; padding-right: 10px;"> Job Home Messages Specs Estimates Tracking Order Shipments Files Members Post Message Enter Event Add New Contact </div> <div style="width: 80%; padding-left: 10px;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ▼ Current Status: Order Accepted </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px;"></div> <div style="margin-left: 20px;">Order Accepted</div> </div> <p>Updated 12:14 PM on Thursday, July 1st 1999 by <u>Doug Anderson</u> of <u>House of Printing</u>.</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ▼ Job Event Tracking </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Event</th> <th>Person</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>7/1/99</td> <td>12:14 PM</td> <td>Order Accepted</td> <td><u>Doug Anderson</u></td> <td>Order Accepted by Doug Anderson for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>1:01 PM</td> <td>Order Created</td> <td><u>Shannon Powell</u></td> <td>Order Accepted by Shannon Powell for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>7:14 AM</td> <td>Estimate Submitted</td> <td><u>Doug Anderson</u></td> <td>Quotes Received for RFE #545 for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>6:38 AM</td> <td>Estimate Submitted</td> <td><u>John Hoffheins</u></td> <td>Quotes Received for RFE #545 for Job New Credit Line brochure</td> </tr> <tr> <td>6/16/99</td> <td>6:05 AM</td> <td>Estimate Submitted</td> <td><u>Tom Vargas</u></td> <td>Quotes Received for RFE #545 for Job New Credit Line brochure</td> </tr> <tr> <td>6/15/99</td> <td>9:04 AM</td> <td>Estimate Submitted</td> <td><u>John Pappas</u></td> <td>Quotes Received for RFE #545 for Job New Credit Line brochure</td> </tr> <tr> <td>6/14/99</td> <td>5:40 AM</td> <td>Estimate Requested</td> <td><u>Shannon Powell</u></td> <td>RFE #545 sent for Job New Credit Line brochure</td> </tr> </tbody> </table> </div> </div> | | | | Date | Time | Event | Person | Comments | 7/1/99 | 12:14 PM | Order Accepted | <u>Doug Anderson</u> | Order Accepted by Doug Anderson for Job New Credit Line brochure | 6/16/99 | 1:01 PM | Order Created | <u>Shannon Powell</u> | Order Accepted by Shannon Powell for Job New Credit Line brochure | 6/16/99 | 7:14 AM | Estimate Submitted | <u>Doug Anderson</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | 6/16/99 | 6:38 AM | Estimate Submitted | <u>John Hoffheins</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | 6/16/99 | 6:05 AM | Estimate Submitted | <u>Tom Vargas</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | 6/15/99 | 9:04 AM | Estimate Submitted | <u>John Pappas</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | 6/14/99 | 5:40 AM | Estimate Requested | <u>Shannon Powell</u> | RFE #545 sent for Job New Credit Line brochure |
| Date | Time | Event | Person | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7/1/99 | 12:14 PM | Order Accepted | <u>Doug Anderson</u> | Order Accepted by Doug Anderson for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/16/99 | 1:01 PM | Order Created | <u>Shannon Powell</u> | Order Accepted by Shannon Powell for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/16/99 | 7:14 AM | Estimate Submitted | <u>Doug Anderson</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/16/99 | 6:38 AM | Estimate Submitted | <u>John Hoffheins</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/16/99 | 6:05 AM | Estimate Submitted | <u>Tom Vargas</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/15/99 | 9:04 AM | Estimate Submitted | <u>John Pappas</u> | Quotes Received for RFE #545 for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/14/99 | 5:40 AM | Estimate Requested | <u>Shannon Powell</u> | RFE #545 sent for Job New Credit Line brochure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Figure 7

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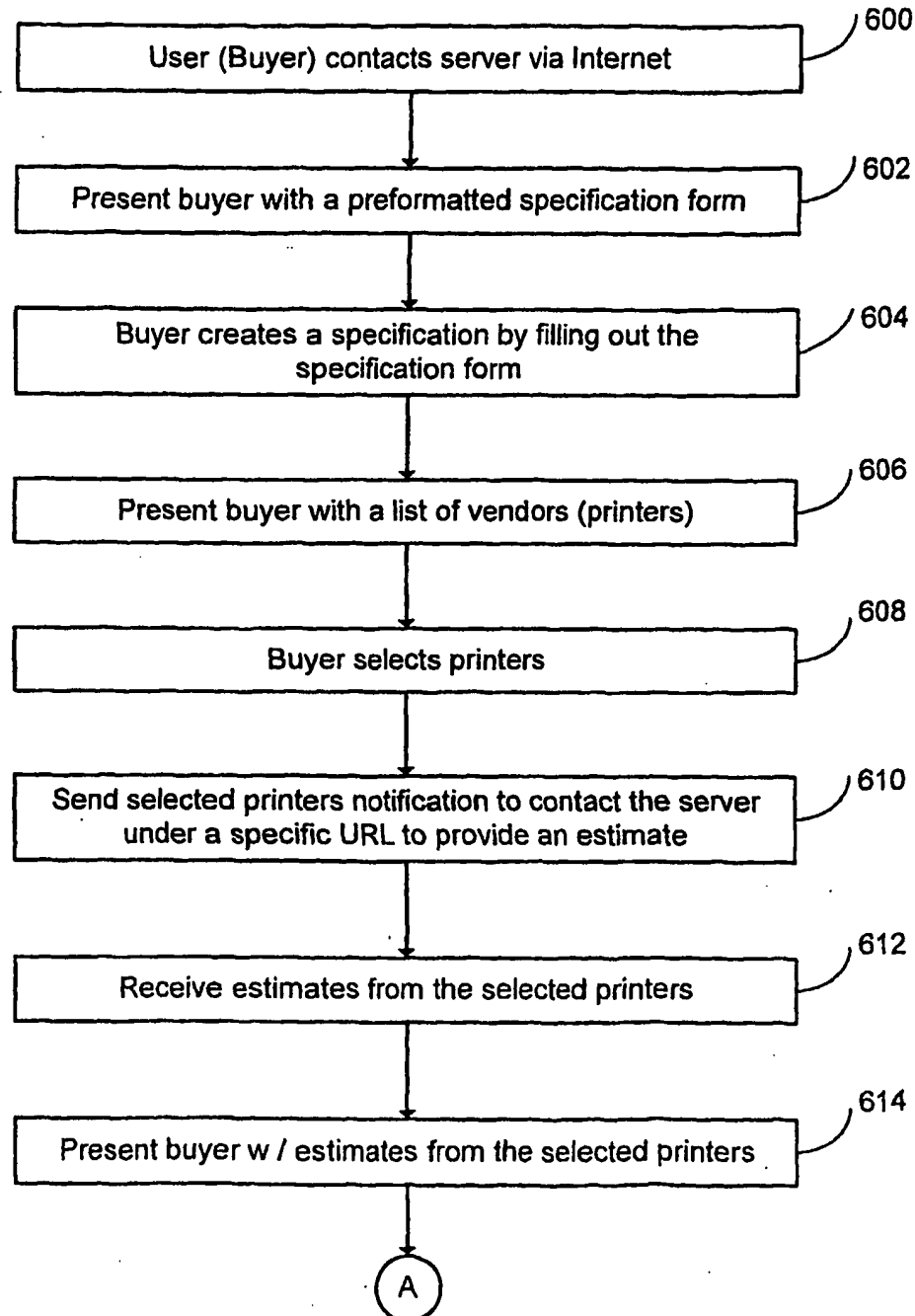


FIGURE 8A

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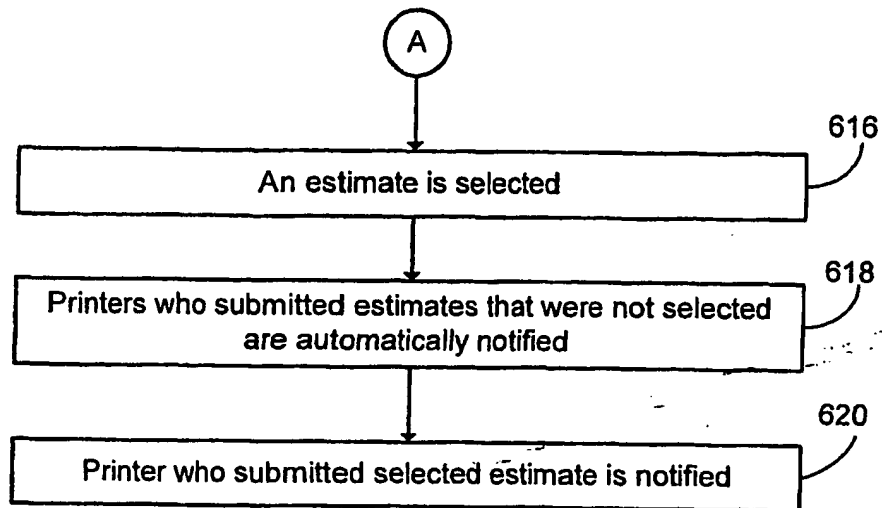


FIGURE 8B

10/29

NOOSH

HOME | HELP | CUSTOMER SERVICE | FEEDBACK | LOGOUT

Welcome, Shannon Powell!

MY DESK | JOBS | SEARCH

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered | -

Untitled Job

Job Home

Messages

Specs

Estimates

Tracking

Order

Shipments

Files

Members

Post Message

Enter Event

Invite Member

Add New Contact

▼ Original Job Spec

▼ Category

Which category best describes your printed piece?

▼

Comments:

▼ Job Description

Job Number

Job Name:

Job Description:

Client Company:

Due Date:

Noosh ID:

Comments:

▼ Size

Flat Size: X

Finish Size: X

Page Count: Prints ▼

Cover Style: ▼

Comments:

▼ Quantities

Quantity 1 Quantity 2 Quantity 3 Quantity 4 Quantity 5

▼ Stocks & Inks

Add Stock

Comments:

Figure 9A

11/29

| | |
|--|--|
| HOME HELP CUSTOMER SERVICE FEEDBACK LOGOUT | |
| NOOSH | Welcome, Shannon Powell! <div style="float: right; border: 1px solid black; padding: 2px 10px; margin-top: 5px;"> <input style="width: 80%;" type="text"/> Search </div> |
| MY DESK JOBS SEARCH | |
| Open Jobs New Jobs Estimating Ordered Shipping Delivered | |

Jobs

 Job Home
 Messages
 Specs
 Estimates
 Tracking
 Order
 Shipments
 Files
 Members
 Post Message
 Enter Event
 Invite Member
 Add New Contact

▼ Stocks
Save

***Used As:** Stock 1

Cover Style: ▼ Other:

Type of Stock: ▼ Other:

Finish: ▼ Other:

Weight: ▼ Other: id ▼

Coating: ▼ Other:

Color:

Comments: ▲▼

▼ Inks
Save

Inks Specs for Each side

Inks for Both sides

Specify Colors:

☐ 4 Color
 Process
☐ Black
☐ Docutech
☐ PMS
 Colors
☐ Metallic
 Number of PMS Colors:
 Number of Colors:

Specify PMS Colors:

Ink

Coating 1: ▼ ▼

Coating 2: ▼ ▼

☐ Use Wax-Free inks

☐ Double Hit

Ink Coverage: ▼

☐ Bleeds

Comments: ▲▼

Figure 9B

12/29

| | |
|---|--|
| NOOSH | HOME HELP CUSTOMER SERVICE FEEDBACK LOGOUT |
| Welcome, Shannon Powell! | |
| <div style="display: flex; justify-content: space-around;"> MY DESK JOB SEARCH </div> | <input type="text"/> <input type="button" value="Search"/> |
| <div style="display: flex; justify-content: space-around;"> Open Jobs New Jobs Estimating Ordered Shipping Delivered </div> | |
| New Credit Line brochure | |

Job Home
 Messages
 Specs
 Estimates
 Tracking
 Order
 Shipments
 Files
 Members
 Post Message
 Enter Event
 Add New Contact

▼ Specs for Job. New Credit Line brochure

| Spec | Created By | Creation Date | Description |
|---------------------------------|----------------|-----------------|-------------|
| <u>New Credit Line brochure</u> | Shannon Powell | 6/10/99 6:43 PM | |

▼ Request for Estimate. (Noosh RFE#545)

Status: Estimating
Closed

Bids Due: 6/17/99
5:00PM

Job Done: 6/28/99
5:00PM

Details:

Sent to: Doug Anderson, John Pappas, John Hoffheins, Tom Vargas

▼ Spec 686 (New Credit Line brochure) Estimates

| Estimate # | Company | Author | Submitted | Expires | 300,000 | 600,000 |
|------------|-------------------------------|-----------------------|--------------------|--------------------|-------------|-------------|
| <u>531</u> | <u>The Dot Printer</u> | <u>John Pappas</u> | 6/15/99 9:04 AM | 6/23/99 5:00 PM | \$35,678.00 | \$59,840.00 |
| <u>541</u> | <u>Mobius Press</u> | <u>Tom Vargas</u> | 6/16/99 6:05 AM | 6/25/99 5:00 PM | \$35,189.00 | \$58,540.00 |
| <u>549</u> | <u>George Rice & Sons</u> | <u>John Hoffheins</u> | 6/16/99 6:38 AM | 6/24/99 5:00 PM | \$36,280.00 | \$58,160.00 |
| <u>564</u> | <u>House of Printing</u> | <u>Doug Anderson</u> | 6/16/99 7:14 AM | 7/7/99 5:00 PM | \$46,784.00 | \$76,521.00 |

Figure 10

13/29

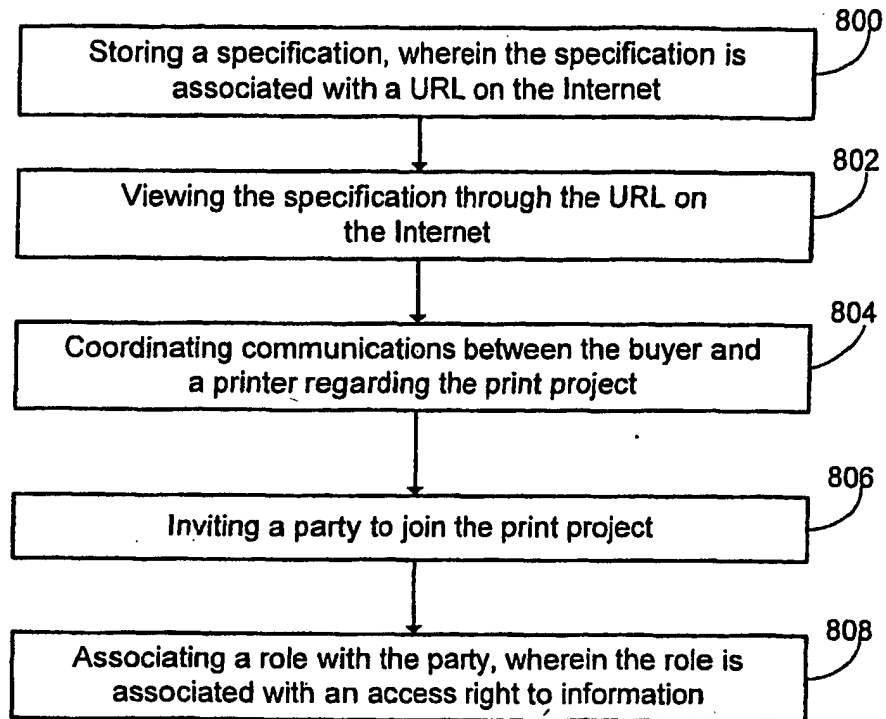


FIGURE 11

14/29

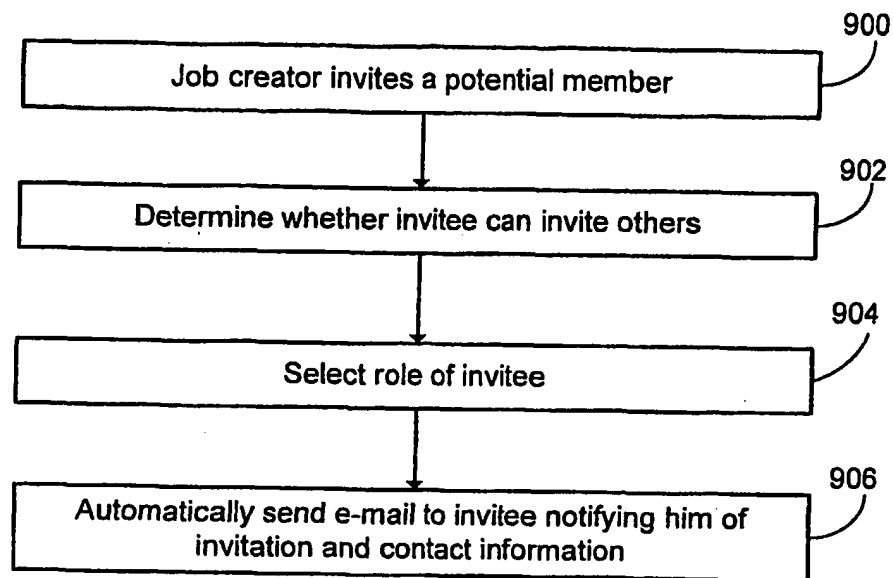


FIGURE 12

15/29

NOOSH

[HOME](#) | [HELP](#) | [CUSTOMER SERVICE](#) | [FEEDBACK](#) | [LOGOUT](#)

Welcome, Shannon Powell!

MY DESK

JOBS

SEARCH

Open Jobs | New Jobs | Estimating | Ordered | Shipping | Delivered

Untitled Job

Job Home
Messages
Specs
Estimates
Tracking
Order
Shipments
Files
Members
Post Message
Enter Event
Invite Member
Add New Contact
Job Team

▼

Choose Invitees

Select the people you want to invite.

Shannon's Address Book

Show list from:

Contacts

 ▼

Personal

Shared

All

edit contacts

| | Name | Company | Phone | Email |
|--------------------------|----------------|-------------------------|--------------|--------------------------|
| <input type="checkbox"/> | Doug Anderson | House of Printing | 650-964-9701 | doug@housexx.com |
| | Sarah Amdt | Nation Mail Inc. | | sarah@nationalmail.com |
| <input type="checkbox"/> | David Amdt | America Printing Co. | 650-348-2333 | david@americaxx.com |
| <input type="checkbox"/> | Jeff Essex | Far Western Graphics | 408-481-9777 | jeff@fwgxx.com |
| <input type="checkbox"/> | Bruce Frost | ColorGraphics | 415-821-7171 | bruce@cgfox.com |
| <input type="checkbox"/> | Tom Hall | Custom Printing | 888-327-7700 | tom@customxx.com |
| | Jeff Hamilton | NationsCorp Fulfillment | 256-124-3467 | doug@housexx.com |
| | Barbara Hansen | NationsCorp | | barharah@nationscorp.com |
| <input type="checkbox"/> | Bob Harris | Bofors, Incorporated | 650-358-3777 | bob@boforsxx.com |
| | Joe Henry | NationsCorp | 415-123-1235 | joeh@nationscorp.com |
| <input type="checkbox"/> | John Hoffheims | George Rice & Sons | 415-468-0900 | john@georgexx.com |
| | Les Howard | Optimum Graphics | | les@optimumgraphics.com |
| | Diana Jacobs | Weston Mailhouse | | diana@westmailhouse.com |
| <input type="checkbox"/> | John Pappas | The Dot Printer | 650-259-1050 | pappas@dobxx.com |
| <input type="checkbox"/> | Shannon Powell | NationsCorp | 415-123-1234 | shannon@nationscorp.com |
| | Jean Swanson | Utility Workshop | | jean@utilityworkshop.com |
| <input type="checkbox"/> | Tom Vargas | Mobius Press | 510-839-3931 | tom@mobisusxx.com |
| <input type="checkbox"/> | Liza Boyd | RDC | 111-111-1111 | liza@noosh.com |

Prepare Invitation!

Figure 13

SUBSTITUTE SHEET (RULE 26)

DOCID: <WO_0116771A1_IA>

16/29

| | | | |
|--------------------------|-----------------------|--|---|
| NOOSH | | HOME HELP CUSTOMER SERVICE FEEDBACK LOGOUT | |
| Welcome, Shannon Powell! | | <input type="text"/> | <input type="button" value="Search"/> |
| MY DESK | | JOBS | SEARCH |
| Open Jobs | | New Jobs | Estimating Ordered Shipping Delivered |
| New Credit Line brochure | | | |
| ▼ Team Members | | | |
| Job Home | Name | Role | Email |
| Messages | <u>Shannon Powell</u> | Buyer | <u>shannon@nationscorp.com</u> |
| Specs | | | |
| Estimates | | | |
| Tracking | | | |
| Order | <u>Doug Anderson</u> | Printer | <u>doug@housexx.com</u> |
| Shipments | | | |
| Files | | | |
| Members | | | |
| Post Message | | | |
| Enter Event | | | |
| Add New Contact | | | |

| Phone | Company | Invited | Joined |
|--------------|-------------------|-----------------|--------|
| 415-123-1234 | NationsCorp | | |
| 650-964-9701 | House of Printing | 6/14/99 5:40 PM | |

Figure 14

17/29

| Security Manager Database | | | | | | | | | |
|---------------------------|------------------|--------------------|---------------------|------------------|-------------------|----------------------|-------------------------|--------------------------|--|
| action/rule | Rules for Buyers | Rules for Printers | Rules for Designers | Rules for Guests | Rules for Clients | Rules for Estimators | Rules for Group Members | Rules for Group Managers | |
| JOB VIEW | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | |
| JOB INVITE_PERSON | <u>YES</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>YES</u> | <u>NO</u> | <u>YES</u> | |
| JOB.UPDATE_JOB | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB CREATE | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>NO</u> | <u>YES</u> | |
| JOB CREATE_RFE | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_RFE | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB CREATE_ESTIMATE | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_ESTIMATE | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.CREATE_ORDER | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_ORDER | <u>YES</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>YES</u> | |
| JOB.UPDATE_ORDER | <u>YES</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.ACCEPT_ORDER | <u>NO</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.ACCEPT_PENDING_ORDER | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB INVITE_ANYBODY | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB INVITE_PRINTER | <u>NO</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB INVITE_ESTIMATOR | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB CREATE_SPEC | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | |
| JOB.UPDATE_SPEC | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | |
| JOB.DELETE_SPEC | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | |
| JOB.UPDATE_ANY_SPEC | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_ANY_RFE | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_ANY_ESTIMATE | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_ANY_ORDER | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.SUBMIT_CHANGE_ORDER | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_SPEC | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>NO</u> | <u>YES</u> | |
| JOB.VIEW_ANY_SPEC | <u>YES</u> | <u>NO</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>NO</u> | <u>NO</u> | <u>NO</u> | |
| JOB.VIEW_JOB | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | <u>YES</u> | |

Figure 15

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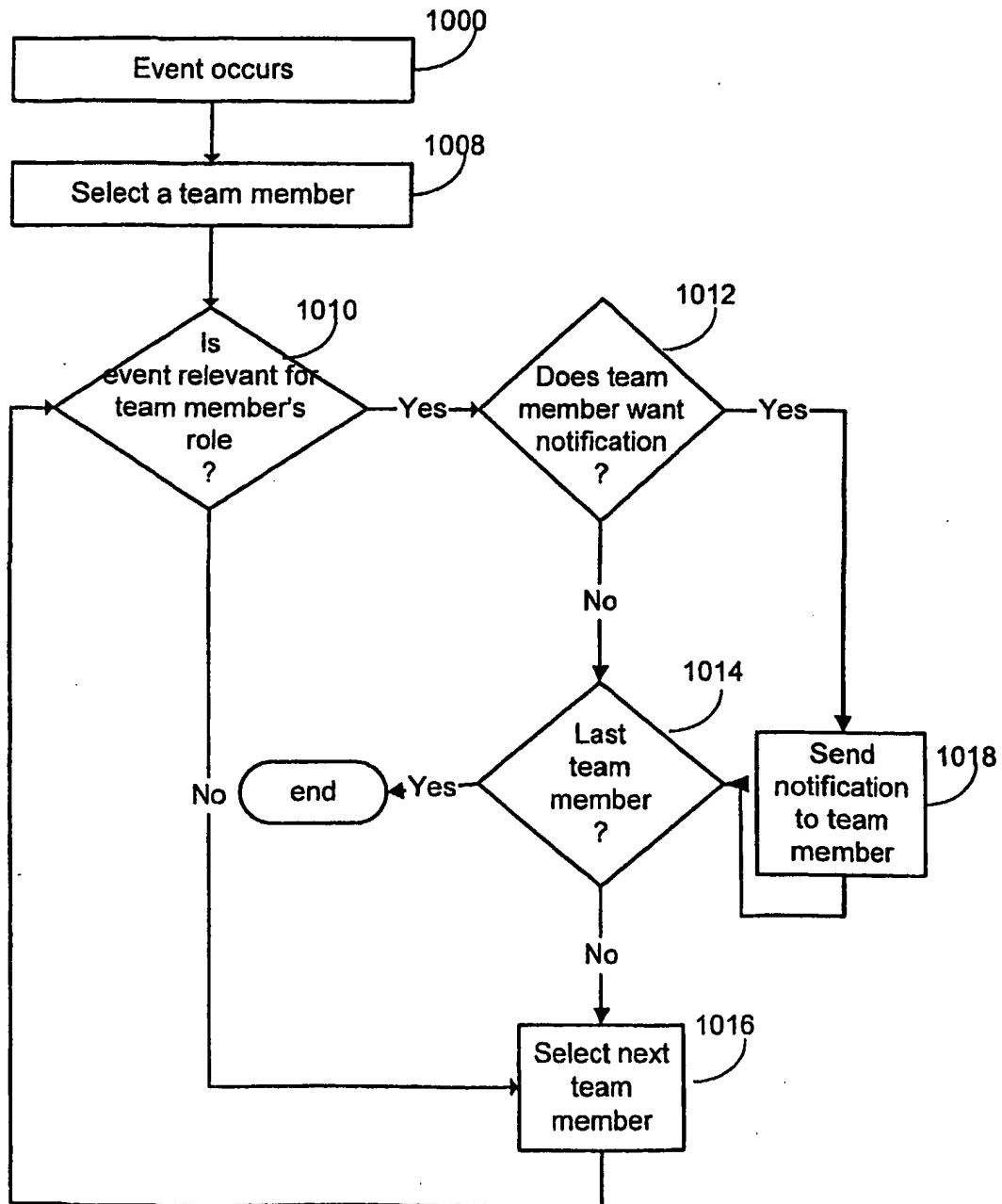


FIGURE 16

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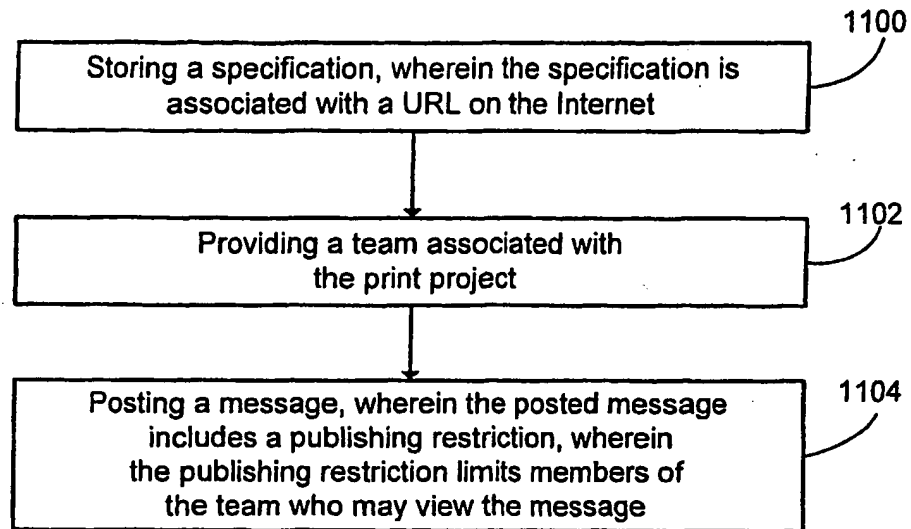


FIGURE 17

20/29

| | | | |
|--|--|--|------------------------------|
| NOOSH | | HOME HELP CUSTOMER SERVICE FEEDBACK LOGOUT | |
| Welcome, Mizzat Spolizzo! Tip Toe Through The Tulips | | <input type="text"/> | Search |
| MY DESK | | JOBS | SEARCH |
| Open New Estimating Ordered Shipping Delivered Archived New Job | | | |
| Fall Promotional Campaign | | | |
| Job Home Job Team Messages Files Specs Estimates Tracking Order Post Message Enter Event Invite Member Add New Contact Chat Other Messages | ▼ Original Message | | |
| | to: Job Team [Everyone on the job team] | | |
| | from: automatt [Mizzat Spolizzo] | | posted: 08/01/99 12:08:56 AM |
| | this is a reply to your message from before | | |
| | ▼ Type your message here: | | |
| | Subject: <input type="text" value="Re: Re. Zippy zippy"/> | | |
| | <div>Compared with other types of manufacturing, Printers have come to a very late understanding of the potential benefits to be reaped from process design reengineering.</div> <div>However, the move to all-digital workflow is now fairly well understood if not yet widely practiced. Printers and buyers wishing to move to computer-to-plate, digital printers, and a few savvy prepress shops are leading the way.</div> | | |
| | ▼ Share your message with: | | |
| | <input type="checkbox"/> The entire job team (1 people) or | | |
| | <input checked="" type="checkbox"/> People from a company: <input type="text" value="Noosh Admin Group"/> | | |
| | <input checked="" type="checkbox"/> People with a specific role: <input type="text" value="CLIENT"/> | | |
| | <input type="checkbox"/> A specific person: <input type="text" value="Dror H."/> | | |
| | Don't show to anyone (for your eyes only) | | |
| | ▼ Finished! | | |
| | <input type="button" value="Post Message"/> | | |

Figure 18

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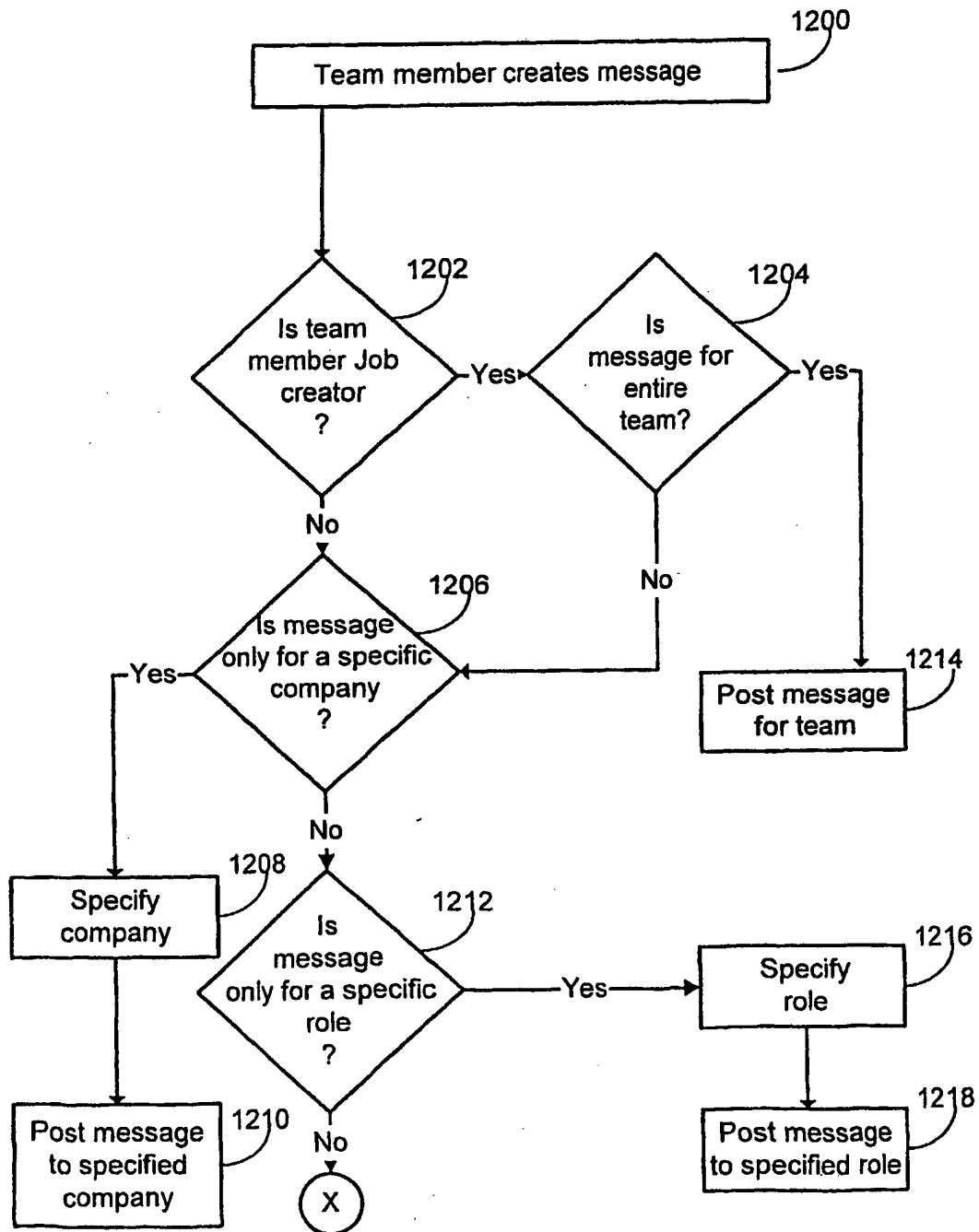


FIGURE 19A

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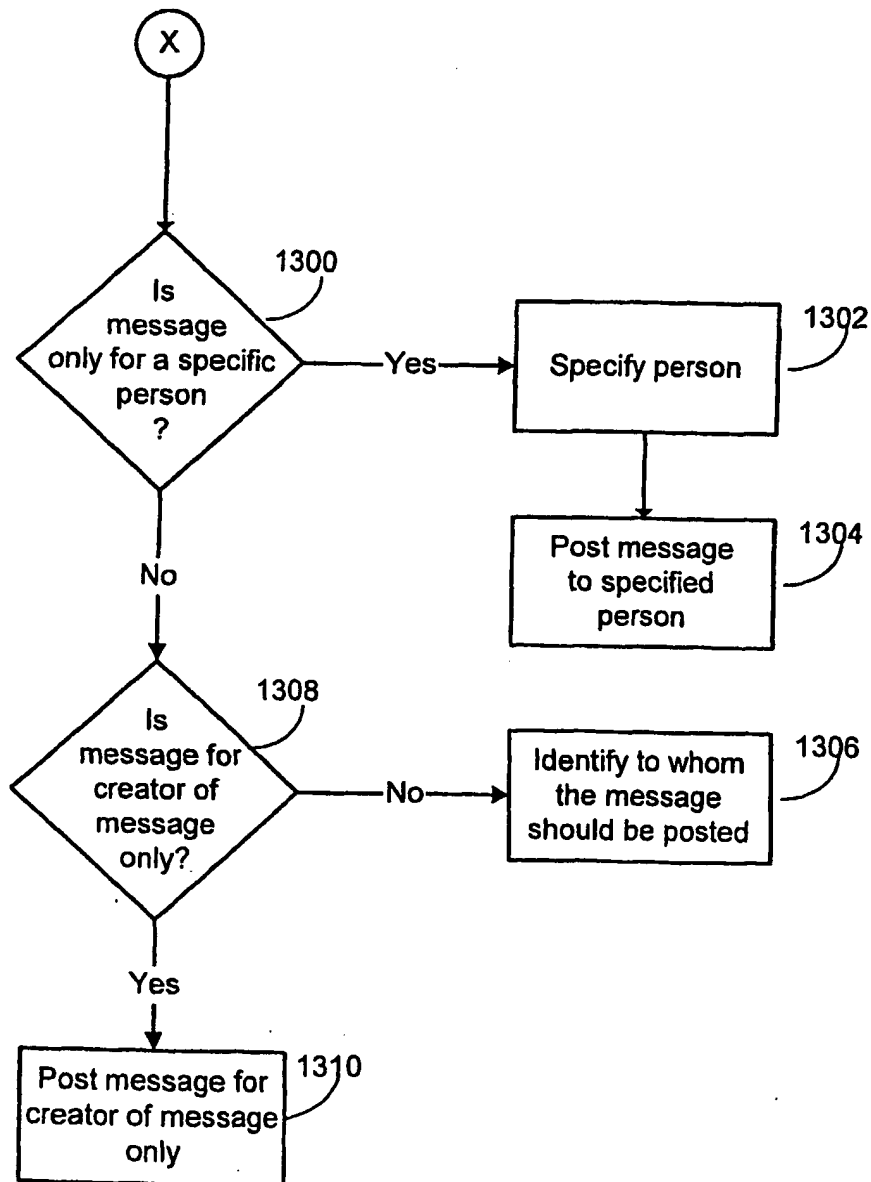


FIGURE 19B

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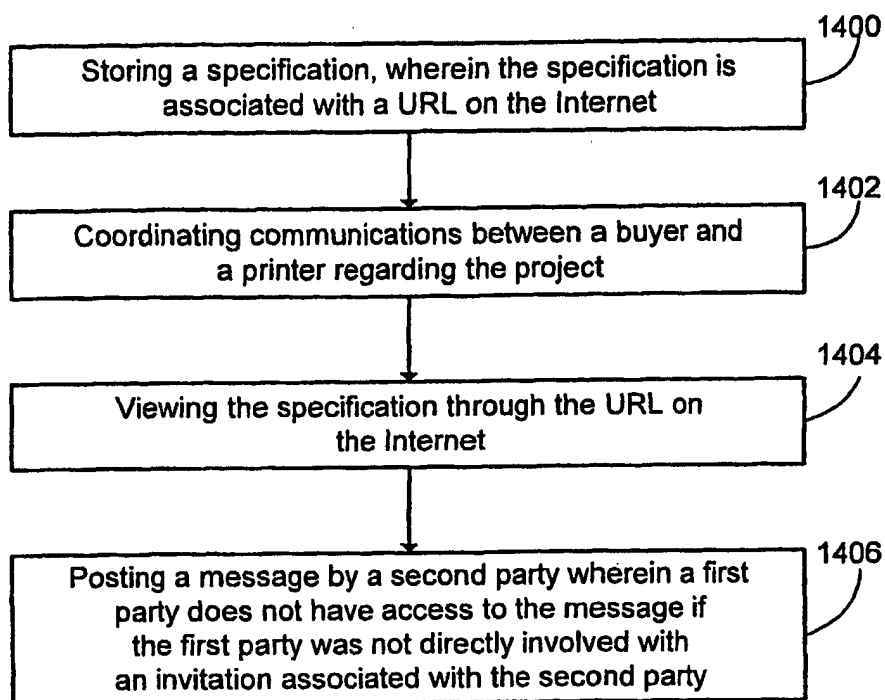


FIGURE 20

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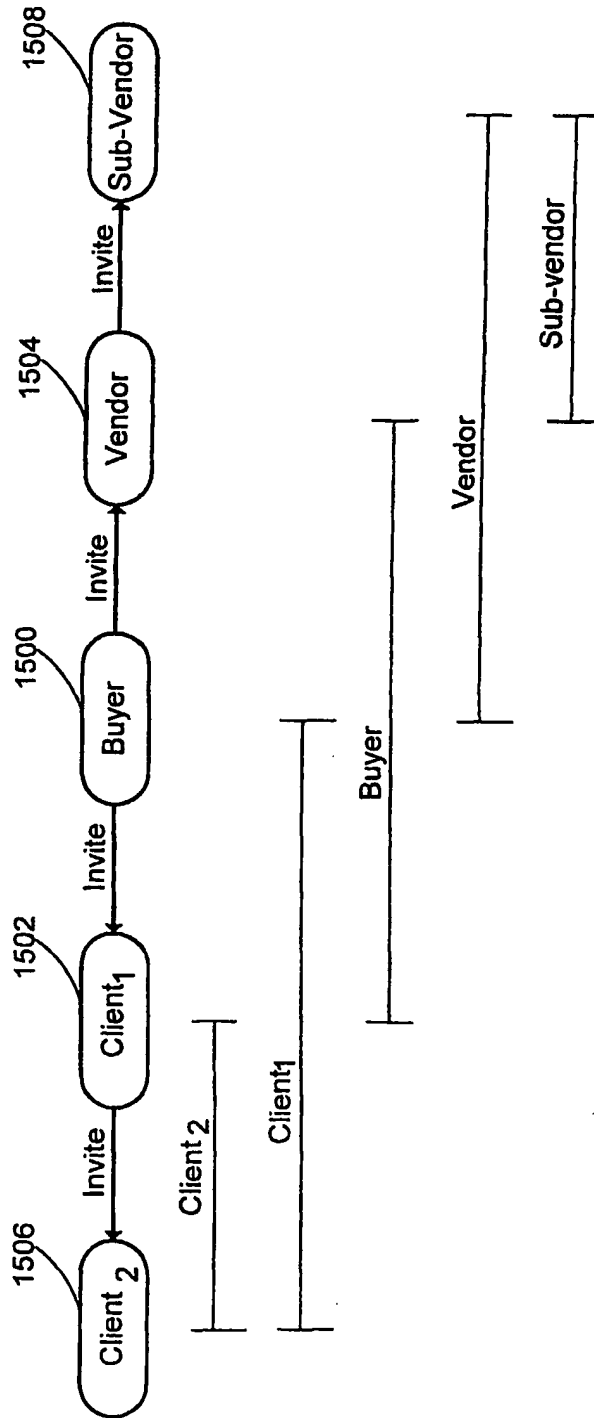


FIGURE 21

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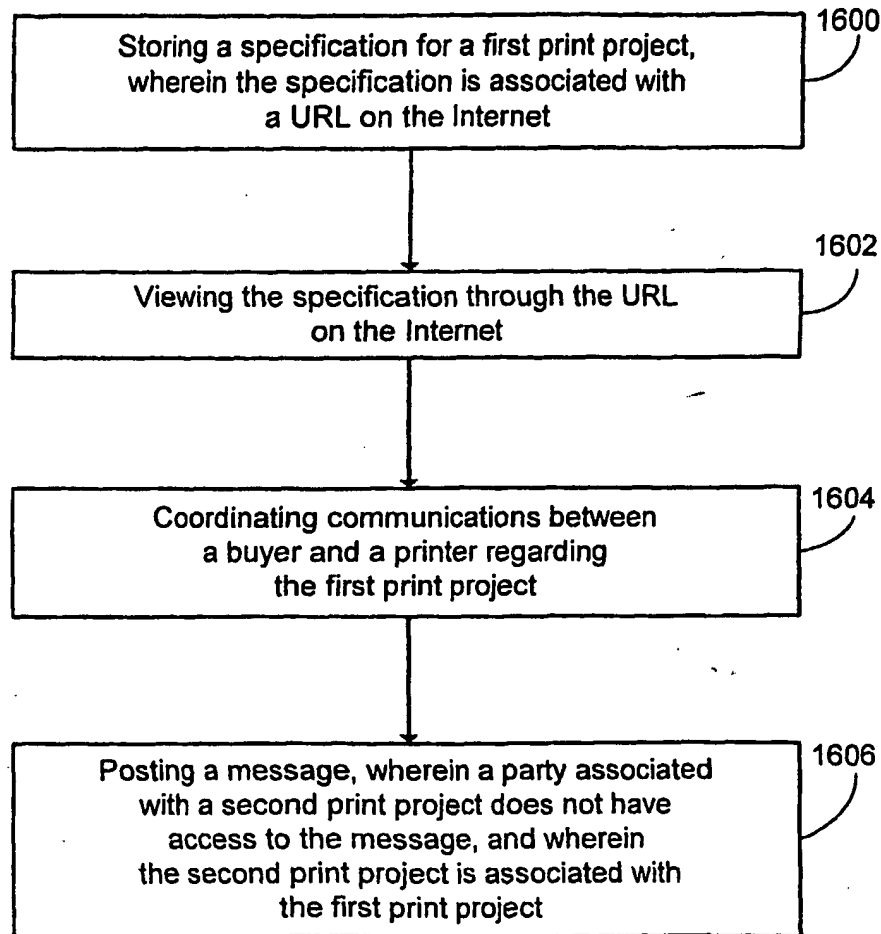


FIGURE 22

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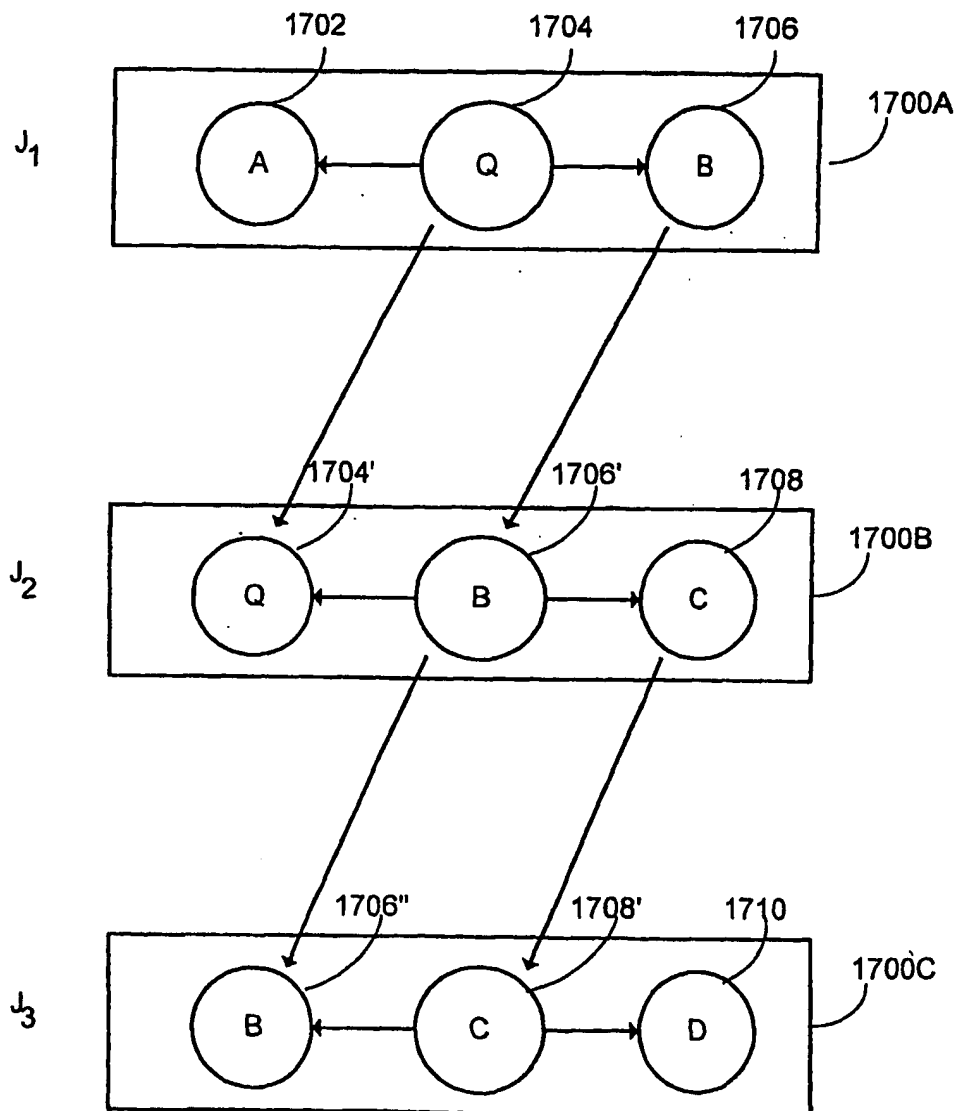


FIGURE 23

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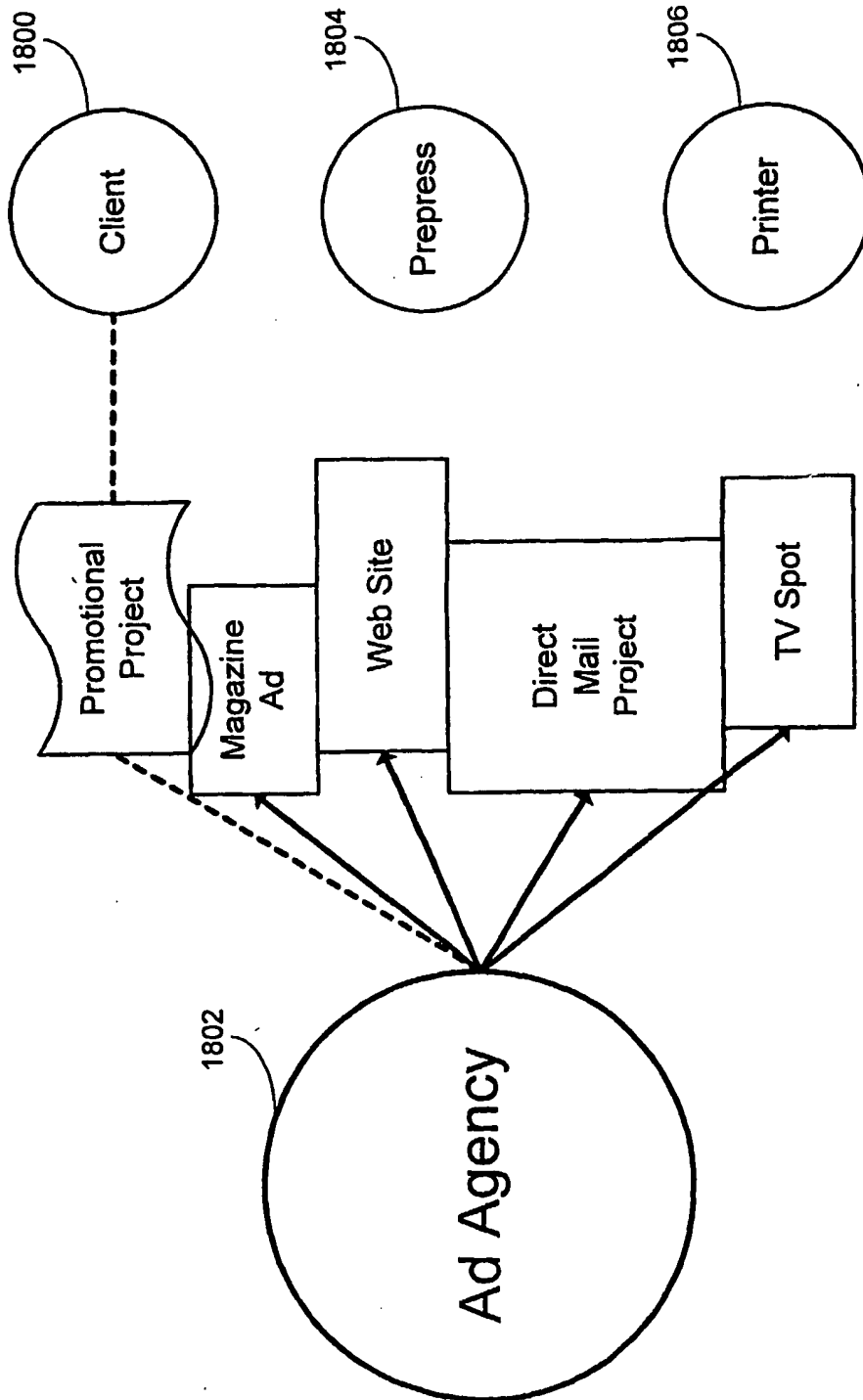


FIGURE 24A

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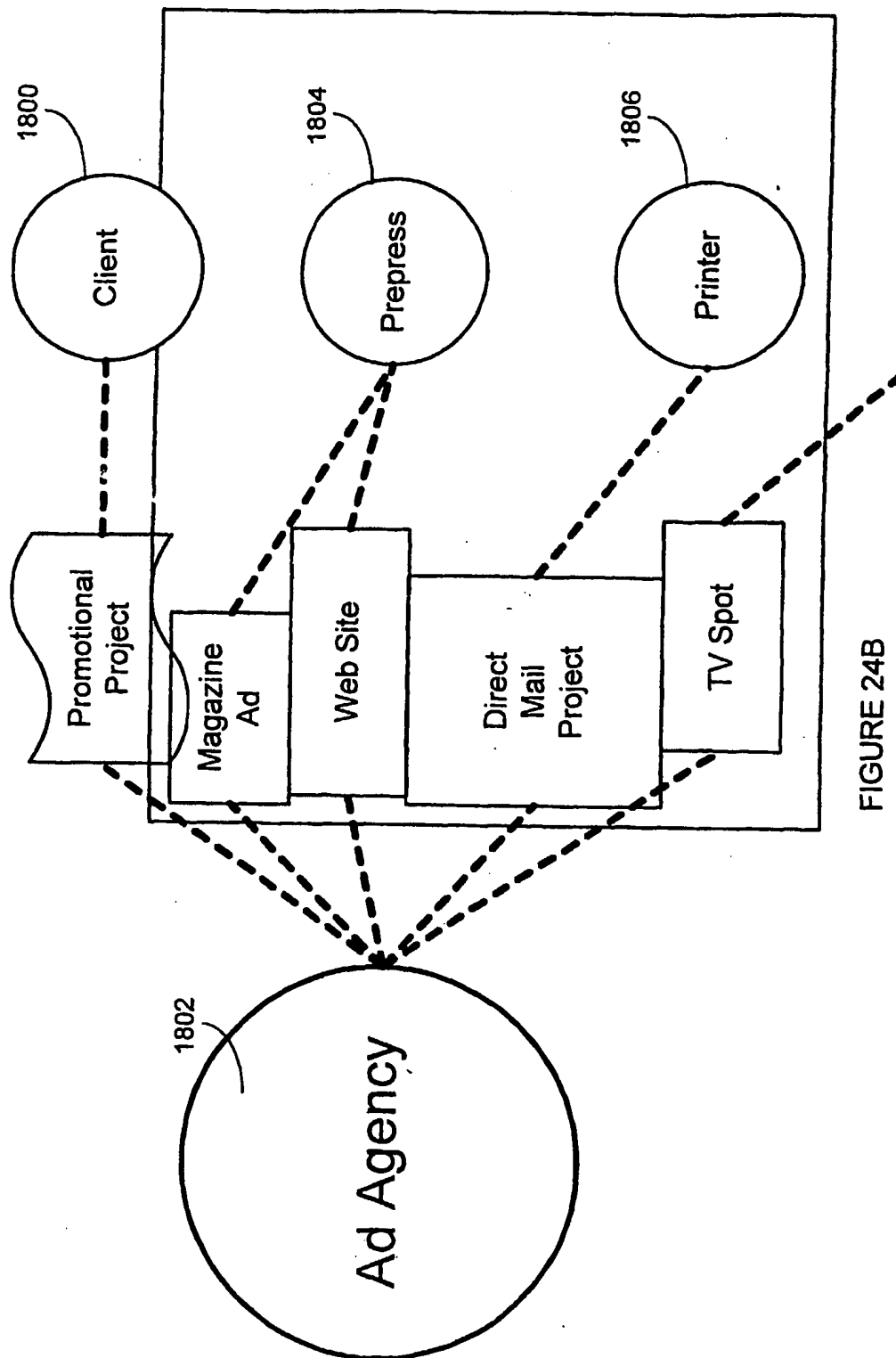


FIGURE 24B

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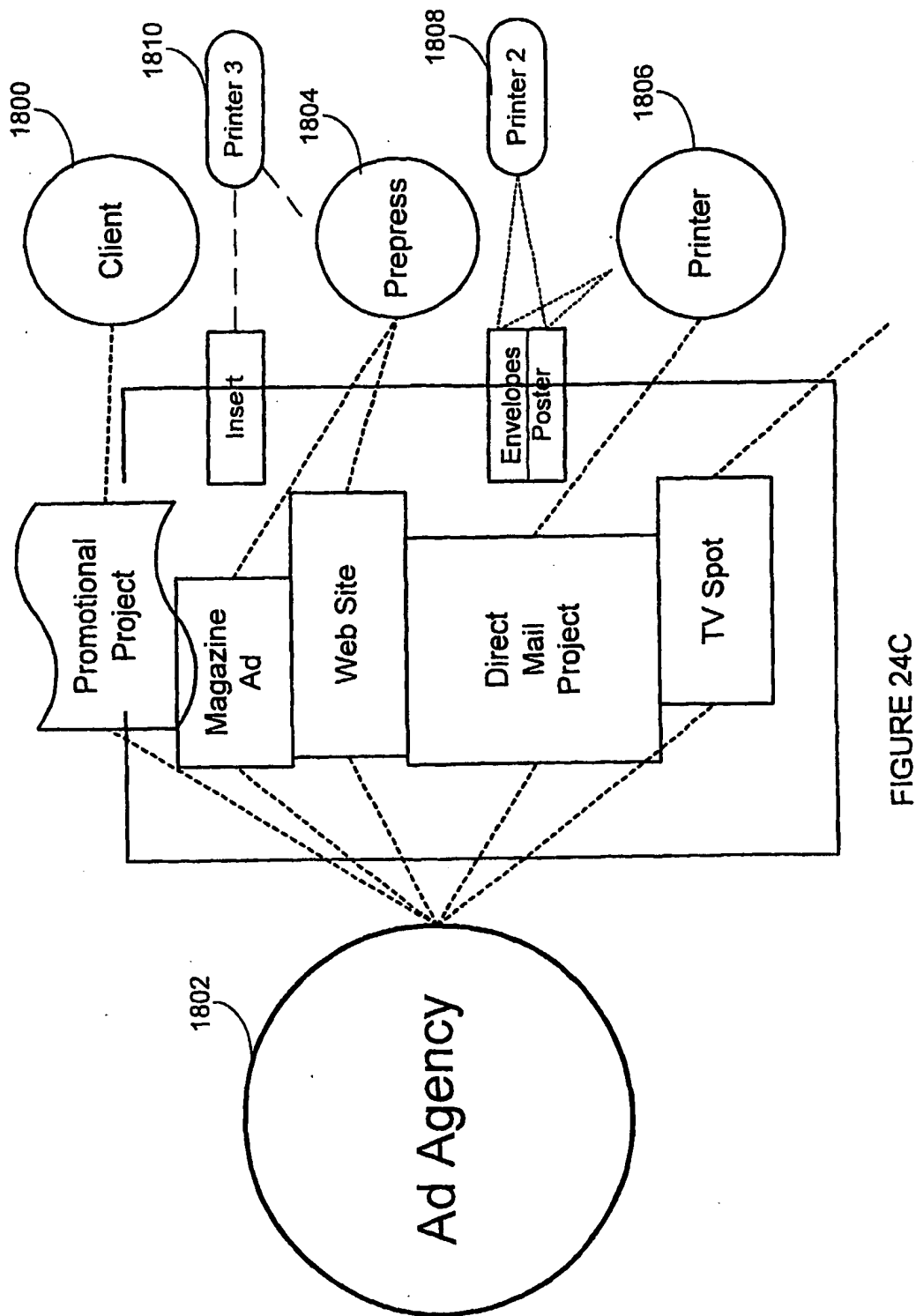


FIGURE 24C

INTERNATIONAL SEARCH REPORT

I. national application No.

PCT/US00/40714

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :G06F 13/38, 15/17, 17/30, 17/60

US CL :Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/329, 331; 705/14; 707/1, 9, 10, 104, 501, 513, 514, 533, 906; 709/203, 219

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DIALOG

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y, P | US 6,026,371 A (BECK ET AL.) 15 FEBRUARY 2000, COL.1-3. | 1-24 |
| Y,P | FIEDLER, E. How to succeed in e-business. May 2000. See entire document. | 1-24 |
| Y, P | Printmountain: 'only 20% based on price'. August 2000. See entire document. | 1-24 |
| A, P | US 6,088,702 A (PLANTZ ET AL.) 11 JULY 2000, COL.4-11. | 1-24 |
| A | US 5,870,552 A (DOZIER ET AL.) 09 FEBRUARY 2000, COL.3-17. | 1-24 |



Further documents are listed in the continuation of Box C.



See patent family annex.

| | | | |
|-----|---|-----|--|
| *A* | document defining the general state of the art which is not considered to be of particular relevance | *T* | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| *E* | earlier document published on or after the international filing date | *X* | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| *L* | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | *Y* | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| *O* | document referring to an oral disclosure, use, exhibition or other means | *A* | document member of the same patent family |
| *P* | document published prior to the international filing date but later than the priority date claimed | | |

Date of the actual completion of the international search

13 NOVEMBER 2000

Date of mailing of the international search report

26 DEC 2000

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

GLEN BURGESS

Telephone No. (703) 305-4792

Form PCT/ISA/210 (second sheet) (July 1998)*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/40714

A. CLASSIFICATION OF SUBJECT MATTER:
US CL :

345/329, 331; 705/14; 707/1, 9, 10, 104, 501, 513, 514, 533, 906; 709/203, 219

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